

tactggagaa agtagagttg aaaccaatca ttcaacatca tggagtg 407

<210> 2317

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D2

<400> 2317

aataaaaattg ccatagaatc cctgaacgaa ggtagaattt gcatacgagc tcataatgact 60

ggacttgcgg aaggtgcaat ggatattata tttccatatac tacatgagac gaaacagttt 120

ggctcccgta tcggtgattt tcaaggagtc cagtttcagt atgcacaaac tcgagttgaa 180

ttacaaggcag cgcgagcgca tgtttacaac gctgctcgta tgaatgatgc aagtatatct 240

attcggaaagg aagcagcattt cgccaaatac tacagtgcgg aagttgccga aagaattgct 300

tccaaatgtt ttgacttggc tggaggaatg ggattcgtga aggaatttgg tttggaaaaaa 360

tattacagag atgtgaaaat acgacacatt tatgaaggca ccgataaatat ccagttgcaa 420

acgata 426

<210> 2318

<211> 437

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D4

<400> 2318

acgcgtccag tcaacgtcga atttccttc gacttggcg ccaatcttct tcataatctt 60

agaatgaaat tgaatatcgc taatcccgct actgggtgtc agaaggcatat agaagtggac 120

gacgaaagaa aacttcatgc ttttttgac aaaagactgg tgcaagatgt cccaggagac 180

gctctaagag acgaatttaa cggatatatt ttcaagatca tgggtggaca agataaggaa 240

ggattcgcta taaaacaagg actcttgacc actggtcgtg taagactctt attaaagaaa 300

ggagactcgg gttgccgagg gtactgtatg agagactgtg aaagaagacg aaatagcggt 360

cgcggttgca ttgttatctcc agatatacgat gtgttgaacc tcataatctt gaggaaaggc 420

aataggata ttccctgc 437

<210> 2319
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D6

<400> 2319

cccacgcgtc cgcccacgctc tccgcttatac ggagaacagg catgtctaac tggaaaggaac 60
gactagactc gtggattgga aagagtagca gtgaatattc caaagggtggc aactcttcgc 120
cagaatgggg ttcatctcct aaattggta tcagtccttc gaaaactaagc aaaagtcatc 180
gcgcctaaga agtttggagt aaaacagtgc atccttgggg gcgttcttac tcaggaaaga 240
tacgttatga caccgtggat aaggacacag agaaagacac aagtatattt gagatacatg 300
atctgtccaa gaaacagagt ggcattccaaat aagaacagac tttgtgagtt ttcaatacaa 360
tacttgctt gttgttataa ttttcataaca tgagtgtaca tgctgttttggac 416

<210> 2320
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-D7

<400> 2320

cccacgcgtc cgcgctggtc aagatggcct tgtgcaagtc aacaaacata gaaaagtaaa 60
gagattgcaa gaagataata ttttgaatag agcactatca caaccaggag atgtatttct 120
gtgctttgc aacatccagt tgggtgaa tgcagaaaga gctattatag gaaatattac 180
ttgtccagaa agtacgtaat tgggtcgat attagctgga catatagcgg tttggttcga 240
tgaacatttgc gatgactttc gtttggaaagc tatcttggga gcactattgt gtacttgtt 300
ttgtgagttgg aagcgtttttgg aaggagaatt ggggtacaa gaatggaaatg aattggagaa 360
gatatcttcc ttagataactt ggaagcttgc gcttggtaca agacaaagag tggataat 420

<210> 2321
<211> 277
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E1
<400> 2321

actgtagtc tctttgcgc gccaaagatg caacaactgg aaatgaggca catatagtta 60
tcgatgttgg taaattctc tatgaaaagtg cactagatg gtttccaaaa tatcaattgc 120
gcaatatcga tgcagttta ctgacgcatt accacgcaga tcattgtaat ggactagatg 180
atttgagaga ttttactttt catatgagag acaactgttg tccacttcca gtatactg 240
aatgacagac ttttcgtaga atacaagcaa gttttcc 277

<210> 2322
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-046-Q1-E1-E10
<400> 2322

aggttccaca ggtgaagtca tgggaatcga cttttcttat ccagcggcat ttgtgaaagc 60
acaaatggca gcaggaactc ctcttccctt ggaaggaacg atattacttt ctttggctga 120
agaagataag aaccaagcag ttgtcttagc ccaagacttt atagatttgg gttttcgtat 180
tttagctact cgaggaactt atgtgcattt catagcagaa ggaatgaatc cttctcaagt 240
agaaatggca tttcaaatan gagaaggacg tccaaatatt gtggaccgca tcaagaatcg 300
agaaatccaa ttgtttatta tgacaccggg aatagacaaa gataccgcaa atgagaaaca 360
agtacgaagg acaagcgttg agtttaaagt gcctatga 398

<210> 2323
<211> 329
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-046-Q1-E1-E3
<400> 2323

caactttca gagttcaat tacatactct tggcacattc attatccatg aagtatgtta 60
ttggggtagt tatgtgccgt ttctattgtt ggatgccatt ccgtactttc gaaggtggaa 120

aatacaaaga gacaaggta atgatgcctc cactcagtgg aactgtattt taggagtatt 180
aagaaaatcat tttttgttag tggtgcctct tattattgtg acgcatccct tttttgcgtg 240
gatggaaacg cgagatgagt taccgctgcc ctctgtcgga gagattgctt ctcaagtgtt 300
tttattttt gtcatcgaag actttattt 329

<210> 2324

<211> 429

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E4

<400> 2324

acccaagcgt ccgcccacgc gtccgtaat atccaaagca attcctgctg tcataagagaa 60
acttgtttcg ttgttatatg caatgataga acatcttcca gtagaaagca aagtagtaaa 120
gtcgtctcta gcggaaatat gtagggcct tgacggcgcc tcaagttgtg taagctacaa 180
ttggttgacg ttgttaattt tgccaggcgt agatataattt gcacatcgaa gtcctgaatt 240
gctagcttg ttgtggcgtt gtggatggaa atatatgcag aatgataactt attctgttga 300
agatgcgaag gcaatgaacc tggcttggat gcbaatttat atacgcttaa tggccatatac 360
gaagatgagt tctcctcaaa caagtgttcg taaaaagtat ttgcacactt ttcatcataa 420
aggtgccat 429

<210> 2325

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-E9

<400> 2325

gaccacacacg tcagccccacg cgtccggtaa cgttgttagaa atttcgtctt gttggcggt 60
tcagtttgtt ttaagtacca tgtcagaggc tccgctttt tcggatagac ccataaatgt 120
ttgtgtaact ggtgctgctg gtcaaatacg ttattcactt ttgccttga ttgccgggtgg 180
aaaagtattt ggaccgcagc aacttgtgtc tttaagattt ctcgagattt aatctgcact 240
tcctgtcctt caacgagttt ttaaggagct cgaagattgt gccttcctt tggcacattc 300

cattttaca acttcagacg caaaggaagc tttccgttcc tgtaacattt ccgtgctatt 360
atgtgccttt ccaacgaaac aaggaatgga aagaaacgtat ttgcttagaaa agaatg 416

<210> 2326

<211> 308

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F11

<400> 2326

agcccacgacg tccgcccacg cgtccgcgga cgccgtgggtt cagtcattca tgtctgcccc 60
aacccaagcaa acaccccaa agaaacttcg aggtgcggaa aaagccgtat tggtatggtt 120
tttaatagat gcccgtaccc atctctttt tgagctccct tttgtattcc attcttaac 180
aaccacggtg aaccaagcaa cccattggtc tgccatatta tggaaggaat atgctaaagc 240
ggatccacgt tgggttagat ttcatgactg cacggtggcc ttggaaagtgc ctacctctaa 300
tttaaggg 308

<210> 2327

<211> 406

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F3

<400> 2327

aagttatgag gagaaggaaa gttgcaagtc aaagcaactc atcctcgata tgctcttgg 60
aaattcggca ggtctgtttc agaatgtttt tccgtgacat gtctatgtgg aaaagaagag 120
agaggatatt atatctcaa gatgatctac ccgtgatgga ttacaaattc atcttggta 180
atttctgaac attcattttgg ttcccttata ttggaaaact ccgatgaaaa gttcgcagat 240
aaattcagta aaaagtataa cagcagaata ctctaactgg aaacatatat cgaaatttgc 300
gttatgtgaa aaaacgagtg gagtttcaa agaaccgttg cagtcttgat gtatcttacg 360
ttcattagaa tagagaaatg agtaacagaa agaaactttg cagaag 406

<210> 2328

<211> 295

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-F5

<400> 2328

acccacgagt caagttcca atgctggact ccatatgtt accaaaatga tggctttgga 60
atggggtcct tatgatatgc ataccaatgc catcgtacct atggtaattt ggacagaaat 120
ggcacagcac gtgtgggtg ctccctgagaa atactatcta tgttggcatg tattctaccc 180
catcgaaaaatgt tacatcctgt agatgttaca tacttgaacg tactttggc tggacaagtc 240
tcggatatga tttgtggaca gagtattgct gtgaatggtg gattaattgt gcatt 295

<210> 2329

<211> 244

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G1

<400> 2329

gacacagcct gactttcatg gaatagactt tgtaacgctt ttggcttatt tgagctataat 60
gtcgattatc tccctggcgt ttactttct gactggttat atcggatttc ttgcattgttt 120
ctggtttacg cgtaaaatata attctgctat tcgtgtggac tgagattgct tttcgatgt 180
tttttgaga gaaaagataa agttggcata ttgagagact tgaaaaaaaaaaa 240
aaaacaaacc 244
aaag

<210> 2330

<211> 291

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G10

<400> 2330

ggctcgaccc acacgtcagc ggacgcgtgg ggaaagtccg agttccaact catcgaaaca 60
gtcgcttcaa gatatagttag caaccagtct tcgagatcca cgagtggttg attggtgcaa 120
aattatttta caaggagttt ctatcctagt ctttcctttt gatatcatt taccatctgg 180
tgttggttc ttctggacgg tgaactcttt gttgaattca ttgcagcagt ttttgctaat 240

aggtagagga agacgatata tcggacttca ggaaagaaca gaattgtttc c

291

<210> 2331

<211> 162

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G12

<400> 2331

gacccacacg taagcttggt gcagtcatgg tggtggagta tataaaggca atggcgta 60

ccaaataaaat aaagaagtgt aaaaaaataag aaaaacataa aaaacaaaaa aaaaatgtaa 120

gaaatggata aaataaaaaa ccaataaggg aagtgcgtcc ag 162

<210> 2332

<211> 386

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-046-Q1-E1-G3

<400> 2332

gtgtttctac cagatcaagg ctaacatgg gtgtactgc ttcaattgca aaggcttggt 60

ctgacctgga tcatttacgt aatggcaagg ataaagcgct cttgaatttg ccccaagttt 120

tcaaaagttc caaggacaan ggcaatttc acgctcgta aggacaaaagt tctattgaag 180

ccccaggtaa agctgagaga attgcaagac aaagagcaag atgtatccgt agtgtccaag 240

atgacgtcgt accagaggaa cccaaacttc tagcaaagg tcccaaacgg gagcgagatg 300

ggagagcagc tttcgtcct tcaaagaagt caaacccgtt ctccctcgga gccacttttag 360

aagatgtcct tctcaaaatt ccgaac 386

<210> 2333

<211> 450

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-G4

<400> 2333

cggccggcc cacgcgtcca cccaaagcgta cgaaggatta gaagatctgt tgagcttggc 60

agactatgtt atcacaaatg cagaattcc tttggagtat tttggtcagt tgaatacgtt 120
aatggcttg gaaaagcttc tggattctta tcctgccaga tttgtcatat ctacgttagg 180
gaaggaagga tgcgttctaa tgagtcgtct ggatgattcg gaagcagaac aaacgcagaa 240
aacaaaccaca aatttctcta cgttccttat tatggcagta aagacaacat ttccgttgcc 300
gacgctttgc agaacagaat gtatccaaa gtatcgagtg atagactgtc cttgctggcc 360
tgtcgaaagt gttgtcgata caactggagc tggagacgcc tttattggag gtattattta 420
tgccataactt caccattta gtcagaaca 450

<210> 2334
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H1

<400> 2334

agtcatccaa ctcagcgaaa cagcaataac tgtaaaaatg cagtaaacta gcagtatgac 60
ggaaagaccc cacaattcct gactagatag gttaaggag gagagagaat catgaagtat 120
aagaagtggg gtaagagatg aaagaccact gcatgaggat aaggaatcta actgagtaag 180
gaaaataagc ttaagctact ttggctgggg aagtaaagcc taagaaagag taaattatgc 240
aagcaaaggc atgagagaag tataatagca caagcatgct tgaagaaaaa gaaagagatt 300
tcagaaaggg aagaaaagtc agctatagag aacaagtgaa ggagaactca caaagaagag 360
agcaccgaac gatcgaagaa gaaactttgg ggttaacacg ttaatgtggt gttagagaac 420
gtatca 426

<210> 2335
<211> 363
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H11

<400> 2335

aggttgcgtg acgccgtcg tggctttt cgtggatct tcatggctgt caagagcaaa 60
cgtgtacgca acgttaagtaa gggcaaaaag ccgactatca actacaccat cgactgtagt 120

aatccagtag aggacggtat attcgatgtt gcttcttcg agaagtttt acaagatcgc 180
ataaaggttg atggtaaacc cggcaacttg ggaaacgtaa tttaaagttac tagaaaggat 240
gccaaagtgg aagtgtcatc agagattcga cttdcgaaac gctacttgaa atacttgaca 300
aagaaatatac tgaagaaaca acagcttcct gaatggctcc acgtaattgc atcgagcaa 360
aat 363

<210> 2336
<211> 386
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-046-Q1-E1-H12

<400> 2336

gaccacacg tccgggtgta agagactagg tgcaagctata tttgtcgatc agtcaccatt 60
gcaattgcag tcgagtgtatg gctcggtgaa acttgggtcc aaaaccttgtt ccgattatgc 120
ttctctggtt catttggaga ccttattaaa gatacaacca gaagctgtct atcaacaaaa 180
tgtgcacgat tgtctgttcc gtgagccaag taaganagaa atcgactatt tcgtctct 240
ctccaaagaa gcagacgcag agttttggc caagttgatc aacgaccacg caatggccga 300
ctggagacccg actttgccgc atttgcaatg tccttgcctc gttatctatg gagaacaaag 360
taaaatattt cctgaagatg caactt 386

<210> 2337
<211> 447
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-046-Q1-E1-H2

<400> 2337

ggtaggttc acgcggcccg agccacgcgt caggatgaaa tgcaagatc tctagagaaa 60
ggcaagaaaag aaaagaaaagg aagacacagt aaatgaggcg agaaagcata ngaagtgaaa 120
cggttacga acccgtagt tctaaggcgt aaaagaaaaga atgagtaaga aaaaaaggag 180
tcattccacc aggggagtaa aggcgcaaga aagaaaccca aagcaattga cggttacgg 240

aaaaagggtt ggatcacgta aattaatccg atataaaccg agaaccttac ctctccaaga 300
aggtgttgcg cggctgtcga aagaacgtgc tgtgaagtga gagaacgtac gagaaagcca 360
agtgaggaaa agaaggcaag tagagggcgg cccgagaaag gagaaggcgt aagacgtgat 420
acagagaaaag aggaaaggat gaaatgc 447

<210> 2338
<211> 446
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-046-Q1-E1-H3

<400> 2338

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gggaaccaat gggaggaaaa attataaaat tggttgcaaa aattcaacat aatcccaatg 120
gcgttccctt caagttaat aattaaaaat gctgccaatg tattccaagc attgggcgat 180
attcttggga gttgttcaa ggaaaatctc gctcagtcat canctgaaca ttctgtcatcc 240
gaaaactagt tgcaataact gaacaatatt ttgcaaaaga gtttgaaaca tcaacatgaa 300
gacaatgtgc agatTTTtag aaagaccttg ttcaagaaac atggcagcgg atcattattg 360
aagcaacgga ctttacagca ttgcacagc gctgtgaatt gttggcaaatt tcctcgtcta 420
cttgcacaca agatTTTcgaa cagtct 446

<210> 2339
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H4

<400> 2339

aattcacgag gaacgagcgt gaacgaagga ggaatctcaa gtaatcgagg aagaaaaaagc 60
ttcggtgaaa gcgtgaacgg atttgtaca cactgcccgt caagttctgg aagtgtgcta 120
agaataagca ggaaaaaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 180
aaaaaaaaat aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaca aaaaaaaaaaca aaaaaataaa 240

aaaaaaaaat aaaaacaata aaaaataaca taaaaaaaca ataaaaaaaaa aaatcacaat 300
actaaacaca aaacaagtaa aagggcagca a 331

<210> 2340
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-046-Q1-E1-H5

<400> 2340

acccacgcgt ccgattttt gttgtggagt cgggttgtt ggtgtacag ccttaatttt 60
gtgggtgtta taaatcatcc aaggctaaat acgtaaagag gaccgaatca gggtaagagg 120
tagaggagca agaagagaag agagaatgct gggtggagta gcgaaacaag agaaggaaag 180
taaaaggtaa gaaagagggaa aggttacga gagaaggaag tagaaagaag agagtgttaag 240
gcggcgcat aatagaaatc cgaaaggagt agaagaaaag agagagaaga aagaaaagaa 300
gagaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaacga aaacgagaag 360
aagagacggt acgcttagaa gcagcaaacc agagaggaaa gcgttaaagc atgaaagaaa 420
agaa 424

<210> 2341
<211> 261
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A1

<400> 2341

agactgcacg tggacacggc atctaactga gtaagtgaaa tagactatga cgaacttggc 60
tggggaaagta gagcctaaca gtgagtaaat tacgcatgca aaggctatta cgagaagtag 120
taatagcagt tagcatgact tgtaacgaaa gaagactcga gatttcaaatt ggcgcaatga 180
atactcagcg ttatcaaaca agtgtacgtg aactcatgga gcagtttatca ccgtacgatc 240
gaataatcaa cttgggggt a 261

<210> 2342
<211> 387
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A10
<400> 2342

cttcggccaa ggcgtcgccc cacgcttccg aaaacttcaa gtgattgaaa ctttcgtc 60
tcaagatatt atagctgatg cgtttgcgg agtcggacct tttgtgattc cagctgcaaa 120
acttaaacgc tgtgttgcc ttggaaatga cctgaatccc gtatcagttg aatttatgtc 180
. gaggaatatt ctaagaaatg gtgtatctga attggttaca acatattgtt tagatgcctg 240
gtccttata gaacagccta tacgaaaaga aatatatttt acgaaactta ttatgaacta 300
tccttcgagt agcagtgatt tcctacgtgt cctcaaagggt ctgtacacag gtcgagaaaa 360
tgcggcgcta cctactagat attgtta 387

<210> 2343
<211> 405
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A11
<400> 2343

gaccacacgacg tcagcgacg cttggcgga cgcttggggg aaaaatgacc accacaacga 60
cagaaaaaag aattgcgtat tatgtgcacc gtggacagc aaccttgtac aagtttcttc 120
aaaagattac caacctagta ttctcttctt tattccggag caacaaaaca tattccatac 180
cttgtaaaga cttggaacag ttttccata cgtcggtca tcaagggtcca caaaccgtac 240
agcaactcaa gtcaaggctg caacacacac ccaactgttc tgtcatctat catatgatac 300
aaaataaccc gggatttgat gaagaatggg tgagcaattt tatcttgaa aagacagtga 360
agttgcgtca aagtccggaa aaggtcaaag agtaaggact gtttt 405

<210> 2344
<211> 402
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A12
<400> 2344

gaacgtcaaa aaaaattgaa ggaagaaaaag gagttggaaa aaaccgggt aaaaaaagat 60
gaggaggatg acaatattct ttgaaaataa ttttgttggtaataaaaga taaagaatgt 120
tttgtggatt gtatggaaagt tttgcaatga gtagaacgcc aacaaggaat atcgttatgc 180
gtatgtgtat acggaacggc aatggattgt aactgatagc aaagctaagc cttgcggAAC 240
tttcaaaag ccatgttcct ttttttcga tacgaatttt aatttgaca acctaagAG 300
gtttccaaaa aagtagggaa aagtcaggac agacacttgg aagtgtcgca ctccttggca 360
gatgtgtggt tggttcccg ccttgttatgg aaagttgtgc tg 402

<210> 2345
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A2

<400> 2345

agcaaacatt tagaacaagg tatgaaggaa gcggaaagaa cgcaacggaggacaagaa 60
ttgcacaatg ctttcttcca agattctaa accttaagcc gagactatgt gaaacgaaga 120
gatttatctt gtgagaaagc aactcaagaa ttgacgagtt gtaagaactt gactcaagaa 180
tgtatcgaaa aaggcataga aaaggacaca agcacagcag caaaggtaaa agatggatta 240
tctgaagaaa agtcagctt gcaagatttc cataagaagc aagtagagtt tgtcgataat 300
atagcgggtt ccgtagatga attgatgact tctggattgc gagtagatga accgactagt 360
actactccctc gtaagagaca gtggattat cctcaagaat tgggacgaaAC 410

<210> 2346
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A3

<400> 2346

ccggcccaag cgtcaggaaa aagttagctc agagactaaa acccaatggatttttcatt 60
tgtttgtcta tgaaaatat ggaagatggg aaatccgttt gatgcacgacgtattcgat 120
tgctattagg aaaggaaaag gaaaactggaa aacaaggagt ggacattggacgcaattat 180

tttctcgct tccaccagat aaccgaatac gcaagagaga agagggaaaga tggtaagag 240
acaataagca agatgcgaca tttgccata tgtatgttca cccgcaagaa gtggatttt 300
ctattgattc ctatattcat atgatcgaca gtagcaactt gcagtttta ggattctcaa 360
atcctaagt atttgatatt tggagactga 390

<210> 2347
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A5
<400> 2347

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caggtgaaaa aagatggcag ttattcaaaa gactggaaaa agagaatgct actgcccgt 120
ttttcttaca aaacaaagct attttccag gtgctagagt tttgaaactg gtttgtgtt 180
ccggagaaac cactttgcaa gtagctgcga aagtaagagg ttattctgta ctttcaggag 240
agaccacggg ggaagtggtg gataaattgt tggatatatt acgtccatct agtcaccagg 300
aaggaaact ggatggtacc agcaatagtg gtcggtagt aggtgtagat atcgccaaag 360
gaatgctgaa tgtgttcaaa ag 382

<210> 2348
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A6
<400> 2348

gaccCACACg taagatcaga tgatagagaa cggacgttca tgagtaacag gatgaagcca 60
gggaggtgat gaagaatggc agatattcga aatactggta agagagagtg ctactgcccgt 120
ctttttctta cagtacatgg ctatTTTCC aggtgctaga gttttggaac tggcttgtgg 180
ttccggagaa accactttgc aagtagctgc gaaagtaaga gtttattctg tacttcagg 240
agagaccacg gggaaagtgg tggataaatt gttggatata ttacgtccat ctatgcacca 300
cgaaggaaaa ctggatggta ccagcaatag tggttcggtt gtacgtgtat atatcgccaa 360

aggaatgctg aatgtgttca aaagcacgtt ggaaaat

397

<210> 2349

<211> 370

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A7

<400> 2349

cggacgcgtg ggaacaacat gccacagcat tcacatctttgt ccatgggtgc ctctttgcgt 60

tccaaagctcc tttcaacttag actcgagctg tcgcaattgc aacaacaaag aaaagagttg 120

gaagaacaag tgcaagtatt gaaccaaacc aatcaacagt tggcatccac cgtcaaagaa 180

tataaaaacga gaatatacga gttggagcaa acagcagatg ctcaaaaaca acaaatacag 240

tcgctcgaag cctgtaaaat acaaatacgaa gaagaaatag agtcatttgc gaaacatata 300

ggaagtggat actttaatcc gagatataca aaagtgttgc atctcaaagg aggacctcc 360

ctttccaaaa 370

<210> 2350

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-A8

<400> 2350

agccccacgcg tccgcccacg cgccgaacc aatgtcgccg aaaggttgctg gagtttgctg 60

ctcttgctgg agatttcaat cgtgctatttgc acttgggttgc aaaggttgcc tccgtatccc 120

ttgaaaataa gctactccgc tatggtgcca aagagtttct tctccgagct ggactttgca 180

gagtctgtct cggagacgaa gtgggtgctt ctcgtgtttt ggaaaagtac aaatccttag 240

attccagttt taatgacagt cgtgaagccaa agcttcttgc gaaagtaatt ttggcagttc 300

aagaaaatga tgaagaagcg ttcactgtatc cagttgcggaa gtacgattct ttgtccaagc 360

ttgatccgtg gaagacgtct atcttgggttgc aaattaagaa aaatctc 407

<210> 2351

<211> 346

<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-A9
<400> 2351

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accaactaag aagactgtct ttgtccactt ttattgtggc ctatccta at tctggacaag 120
tctatgatac tgtgagaaaa gagtgaggc gagaaaataa tatttctata gaacactgg 180
ttgattatgt agttggatgt ggtgcagata tcaatggtgg ttgttgcgt acaactcctt 240
agcatattca gtgtctgaga aatcgagtga gttgttctcc aaaagacgaa cggaacacaa 300
gtctactata tgcttgaatc tcatacgatg aaaacacctg cggcta 346

<210> 2352
<211> 325
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-B1
<400> 2352

agagcaagcg tgaaccgtga ggtagttca tcatggatga gacaacacgt caagatgg 60
ttatgtcttc tccttggact gttcgctcgct tcctctacac agttattta gcattctctg 120
gcatcagcat tggttggat tgacgtaaag cagacaagat atggaacgac agtttattct 180
atgatggaa gtacattacc ttttgtgctg attctgccgc ttctgttgc taaggaggg 240
accatggagc gtgttagatat gtcatggcgt tggcgtctat aagttgatt ctgtccctt 300
tcttggct tttcacattt gtaga 325

<210> 2353
<211> 424
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-B10
<400> 2353

gacccacgct ttcaggaaac agacagatgg ccaacgctgg tcaaaatggc ctttgcaat 60
tcaacaaaca tagaaaagta aagagattgc aagaagataa tatttgaat agagcactat 120

cacaaccagg agatgtatTTT ctgtgctttt gcaacatcca gttgtggtg aatgcagaaa 180
gagctattat aggaaatatt acttgtccag aaagtatcga attgtgtcgt ctattagctg 240
gacatatagc agtttggttc gatgaacatt tggatgactt tcgttggaa gctatctgg 300
gagcactatt gtgtacttgt tattgtgagt ggaagcgTTT tgaaggagaa ttgggggtac 360
aagaatggaa tgaattggag aagatATCTT ccttagatac ttggaagctt gtgcttggta 420
caag 424

<210> 2354

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B12

<400> 2354

cccacgcttc agattAGCTA aaggAAATGG tCTTCCAAGG tcgGAAGGAA ttacttcaaa 60
aagggtgcag gataataaAG gtcgtcaaAT gactgcgcCT gatcagaATC gacaaggcCT 120
tggaggtgct ccttcttcAC aaggacggAA tcGCCAAGGT gagGAACCAG caggaggcAG 180
aggaccCTCC aagtggagAG gaggttCTTC tgatAGAGGA ggaggaggAG gtagaggagg 240
aggcagAGGA aatAGTCGAG gaAGCAGTCG CGGTGGTAGT tttcgaggTC caatGAATAA 300
taatAGACAG gaaAGAGATG ctTCACAAGG tttcgccAAC tctgCAAAGC gtggTgggAG 360
agaccGAACA aatGATAAAA gtgcgACTA 389

<210> 2355

<211> 400

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B2

<400> 2355

gaccCACGCG tcaggatATT tctcgTCTTC tttccccCT tctacAAAT gtggAACAGC 60
caaATGACTC gtttatAGCA CGGTATTATG CGCAGGAAGG aAGTCGCCTT ggaACAAAGC 120
atcaggAGAC tttcgcaAG ttagGAACTG agAGCTTGGa ggatacAGTT gcggAAAGCCC 180
tttatGAACT ttataAGATG atgactgtgt ggaatcAGGA ccttGAAGCA cgtgAGcACC 240

agtcgaatac gaaggaagag ctcgaaaaca cagcaaagtc tcacgcctt ttctgctata 300
ttctaaaaat attgaagaaa ttttgcaac tgtgggtgt cgaatcttt tcggacagtg 360
gaaagagagt ttggcaata tacgactcgt tacagagctt
400

<210> 2356
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B3
<400> 2356

agccaacgcg tccgcaatta tgagaatacg tcgttgaac gaacaaggag aagaagaaga 60
caaagaagac gaacaagaag aaatgcaaag tgaagagttt acaaggagtt gttcggattt 120
tcttcttcg tattcttcg aaatggtaga ctgtataacc tcattgacgc atgacgacga 180
agagaaagag tcgttcgtgg cttctcgact tggacaaaaa ctggaaaga tgctggaaag 240
ttatgcctcg cattgtatgt gaaaaataaa gactttgtt tttcgtcatg ttccggacga 300
cacaccaacg aagcattggc ttatcgacaa gttcaagtta ccaacgagaa ctttacgggt 360
tactttgtca cctggagttc gtcgaagaag gaagaataag agttttgc
408

<210> 2357
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B5
<400> 2357

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gttccagttac atcatatatgt caaggaaaat agatatgttc ggctaccaga gttgttcgg 120
attccgttttgc tcatgagatgt tgcctttgtt ggagagccgg tgggtcaattt attgcacatcg 180
gttggagaat atttggaaagc caaagaggag gagataaaatgt cgtggaaatgt gtatggaaatc 240
aggatgggtt tattttcttc attagatgac atggaaaaatgt tatgggttcc agaacctctg 300
tcggatgacc gaggagatgtt ttcgggtttcc ttgggttgg aacataaaaga tgagaatgca 360
aaacgttggc agtcacatctt cccaaatctt tttatggaca aacccttaaa gattcgggtt 420

<210> 2358
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B6

<400> 2358

aggtttgtt ttggctgtt tgtgttgtt cccactatcc aactccgttc aacaagatga 60
agcgtttgtt cctattggtc ctttcgtga aaaggatgag cacgcaacac agccttcaca 120
acctgttgta aagccacatg gtagcaaaca ctggaagccg ctccagtgt a c t c c a a c a a 180
ggaaaaagca gaggcattga tacaaaaggc acaaaaatagt ttgagtgcg ttttctcaaa 240
ccggttgttc aagcatatacg acgtcgaaag ttgtcaagag ttttagagtgg tcgaaataaa 300
gcttgacgaa aaaggtttgta atttggataa tggacaagag catatcaagg aaagctttag 360
aatattggca gagtttctcg accaatgtgg agcgaagaa 399

<210> 2359
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-B8

<400> 2359

agcccacgcg tccgtggatc gattcctcg gacggagatg aagtcttatac tctcgctttc 60
ttctgtttgt tttgggtgc cttgtcatca ctgcctcg tctagtggat ttcacacacctc 120
tctttttgg agagcgaatt atatgtatga acaacgaata ttgaaagaaa gttttatttc 180
acgaaataat tgacttagtt gagagcgaat atgaatgtac gcaagcctca tcgtttgt 240
ataagagtgc aatgcatacg cagcaacttg cacagtaaaa tgcggcgtct tctaacagta 300
atggatcgta gcttagacag aggtatgaaat aggaccaga aagcagctgt tatttggata 360
actatttcct gtttgatact ttctccgggt act 393

<210> 2360
<211> 342
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-B9
<400> 2360

attttaacc aaccttaata cgcaaattta acccctagta gaaaaacctc aaccggaact 60
tccgaaggag ctaccaaagg actttctgaa aggttaagtac catatacgctt gttgttagtg 120
aaaaccaatt ttgcagattt aaacctctgt caaaaacatc ttgccaacat gtttcgttgg 180
ttcatgttat tctcagaata caataagtgc cgaattcaaa tgactatata tagaaagtgt 240
aaagaaagac gataacaagga aataagagaa cgccctgtggg agtgggatga aggaatattc 300
cgctcgtaa actctaagtc tcgacagctt cttagttgaag aa 342

<210> 2361
<211> 398
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C1
<400> 2361

agaacaccga gtccatcgcc atctgcctat tctcgtgaac aagtacagcg tggtggttat 60
ggagaatatac aatctcaaca atctgctagt tactatgtaa ccaagtatttgc caagaaagca 120
gtacaacaag taacttatac ctcatgttct acttattacc catcgcaaac tgtagaacag 180
aagacttgct acaagacagt agcagttcct acagagtatc agaaatatttgc ttacaagcaa 240
gtggaacagg agcaagttgt tcaaaagagc tgtcccactt attattcagt acaaaaagggtg 300
aaatatcaga gctgccctac ttatatcacg cagccaaacta tcatacccaa gtactgcagt 360
atgtcggtct ctgaagagta tgtacagcaa cagcaatg 398

<210> 2362
<211> 396
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C11
<400> 2362

cgcgtcagcc cacgcgtccg agaatatggc cagtctttga gtgccaatgt gtacctttgt 60

cgtccagaaa ccaaaaatat gctatttggc ccacgtgagc agaaacagcg cattcaacaa 120
acgcatttgtt tttgttgtgt acctttccac agtcatcaact ggaacttttg ggaagactgt 180
ggactgaaaa atttatcttc tcatctcgta ggacaaagaa acaacgacaa cgacgacact 240
tttcttattt ctgtgaatat acaagataat actcgatctc catagtgaac agtagactag 300
tatTTTTGG aataacaact acgccttgta aaaatatggt ttctctagtc aaaatgaggt 360
ggcttcgctg gtcttatgaa ggggtacagt tgctga 396

<210> 2363

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C12

<400> 2363

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atagaaaccc ctcaagttgg agtccctatt cacttgaagc aaacgtgtgt gacataaaac 120
aacgcaatca acagccacaa ctattgaat aggttgaatg atatacaatg ctcctcaagc 180
aaaaaatata gaagaataaa gcgagtaaaa cgTTTATCTC tagcacaact ttttatacca 240
gcaacgttgt tggAACGCTT cagggatca tcgatacttg attaattcag aatggactac 300
gtttatctca ccctccgaga atccttccaa aacatacaaa cattcgagtg ctgggtttc 360
ggttaaacga aaaattccct ccagccaaat ccgtttgtt ccgagccaac tgaagaacct 420

<210> 2364

<211> 272

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C3

<400> 2364

tgcatgtga taaggaatct aactgagtaa ggaaaataag cttaagctag tttggctggg 60
gaactaaagc ctaagaaaga gtatattagg caagcaaagg catgagagaa gtataatagc 120
agaagcatgc ttgaataaaa agaatcatat ttcataaagg gaataaatat cagctataga 180
taacaggtga aggagaactc aaccagatga tagcacccaa cgatctaata agaaactttg 240

gtggtaacat gttaatcttg tgtagagaa cg

272

<210> 2365
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-C4

<400> 2365

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tggggtttggc cgtttattat gaacttggac tctattgaca caggaattaa tgctccttt 120
gacccgtttgc cagacgcctc acgtggagag gacgcagcag taaccaaaaa tatagtgcac 180
attcgcttgc aacaaaagaaaa cggccgcaag tgcttgacga cgattcaagg gcttgacaca 240
aaattggatt tgaataaaaat tacaaaggcc ttcaaaaagg agttttgttgc caacggttgt 300
gtcgttagacg acgcagaact ggaaagagtc atccaaactgc aaggagacca agaggataaa 360
gtcaaaaaagt ttcttagttca aggaaqaatt aqctaaaaaa qacctqataaa aq 412

<210> 2366
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-01-E1-C5

<400> 2366

cggacgcgtg ggacagagta ggaagaaaag agaagccatg gatgtggaga acccaccgat 60
agtttatgt tcgggtctt gtaagagtaa catttaccgc agttggatga acaatagtga 120
gagtgagcat tggagaaaata cgaatatttt ttgtcctcggt cgaggtcggc tttttcatgg 180
gagttcaatg acggaagagt ctccctgattc cgtaccttat ctattatctg agcttcgttc 240
tttgatttct tatgtttcag gcaaggctgt gctttgtaaa gggtctgcta gcttcattcg 300
tgatcgtttta cggacgttga tagcttttc ttcatctttt gtggaaaggg acaacagttt 360
tatggatttc accggtttat ccaactacac gcacq 395

<210> 2367
<211> 380
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C6
<400> 2367

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gtactagaca actcaggacc aaaaacagca agatgtatag gaattcttgg accacctaaa 120
aagtttgcta ctgtcggtga caagattgtt gttactgcag agggaaaagt ttaccacgga 180
atcgtcgctt gttgttaagggt ggaaaaagaag agaccggacg gttcccttgc aagaatcgac 240
cagaacggag tcattcttagt agattcaagt ggaaagccag tgggaaacag agtattttgg 300
gttttgagca gtagagtgaa gcaaccggaa attctctcct tgggacgcgt caaaaccatg 360
taagctttaa tagtttaggtg 380

<210> 2368
<211> 380
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C8
<400> 2368

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tgacatggct acttcggaaa taaacaacca ccatcaggaa gaacaaccat tcaaggagtc 120
cgcgtcgaaa gaagtcaacg acaagttcga ccaaaccatat gccgaaagcg ttgccaagga 180
aatcatagaa agcaccgtgg gagaagagaa atacgaacac acaaagacag tggaaatggac 240
caatcaaatg tgtaaaaaaaa tactgaacaa gttgttggaa ctgcaaaagg ctttcaaata 300
taaacgtggg tgggtctatc ctcaggtAAC gtttttacat ttagcgatag ccactagtct 360
cttggccctt attgcaaaag 380

<210> 2369
<211> 368
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-C9
<400> 2369

cacgcgtcag agcagtactg aagaccgaca caggtactcg aggagaaaagg agacccaaat 60
taaggtgaga gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaaac 120
atatgaaaga agcagcaccc actgttttagc aaaaacacag cactctgcag aaaagagaaa 180
atgtaaagta tagagtgtgc ggcctgccaa atagtagaga agaaatcgat gaaagtgaaa 240
gcgagtaaaa gatgaggat agagaatggc ggtcctaact gtaaggatcc aaaggtagcg 300
aagtacatag acgtttgaaa ggcgtccagt atgaaaggag aaatcagtgt agcactgtct 360
agtctgtcc 368

<210> 2370
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D1

<400> 2370

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caaaggctaa gtagaaggaa gaagaagaga gaacaggccc aaagaagaag aaagaatagt 120
ggatgtcata gtatggcaga agaagaaagc tctcaagttt ttcacgccaa actattgcta 180
aatcaaggct ccaaagattt gcttcgttcg ttggaaact tgctggaaac ttttacaacg 240
gaagaggtaa agtagcaat tcggtagttt ttcacgttgt tcgtgttagt gatgaagaaa 300
agttgagttac tatactcgta cacttggAAC gcgtatgtac agaaatatcg agggtaggag 360
tcttgacacg gatTTTATTG aacaactaaa ctattaaagt cactgcaaa 409

<210> 2371
<211> 227
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D10

<400> 2371

acttacgcgt caggaactag gcagaaggat atggtatctg cggtagaaca tatgaaagaa 60
gcagcaccga ctgttttagca taaacacagc actctgcaga aaagagaaaa tgtaaagtac 120
agagtgtgCG gcctgccaaa tagtagagaa gaaatcgatt aaagtgaaag cgagtaaaag 180

atgatgtata cagaatggcg gtcgttaagcg taaggatcca aaggtag

227

<210> 2372

<211> 150

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D2

<400> 2372

gaccacgcgt caggaataga tgagggaaaga aagatcaagg aagtaagagt aagagaagga 60

gtaatgtgaa tgaaaggcagg aaagtatttg aagaagagag tgtaaagcgc gtacctttt 120

cataatgtcc cagcgagtga aagaggaagc 150

<210> 2373

<211> 251

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D3

<400> 2373

gacccacgcg tcaggtgact ttcttcaga agatatttc agttgctcct ctcaatttcg 60

aagaatggat ggcagtagtg tggttatcgt ttcctgtat tctttggat gaaatgctca 120

agtttgtttc aagaaagttt attcaaggca atataaagaa accaagaatt tgacaagatt 180

gttgggttgtc ctcaactttt ggactggaac aattccctgg tcgcctaaaa taaaaaattt 240

cctcaagtct c 251

<210> 2374

<211> 399

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D4

<400> 2374

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acggatactg agtgatagtt cacagcgatct tactatagct agtggttctt ccctagaagg 120

caacacaaaa aatattgaga aactgaattc ggattctcg aaacaacaag cgaaggaaga 180

ctccccgtta caaggaaatg agacgagaga aacccagcaa gacgcaagtg atgtgattgg 240
aacccagcgc ttggttccac agtcggaaca aaataagctt acaaacacaa aatttacagt 300
tgaggagca tttgatggtt tttcgatgtt taagcgtctc tctcaaattt ccgggacact 360
tggttcctcg agagtggaca acttattccg ttccgtgtg 399

<210> 2375
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D6
<400> 2375

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ggaaaggaca gtaatcgagg ttgggtgata atgatatgtc cttctgccgt tgacgtggaa 120
gccatggaga aaatagtcga caaagagtcg ccattctaa ataaagatgc tcgtccagtt 180
atactggta atccaatct agttgatatg ggagcaacag gtttaggctt caacgcaaga 240
cagctaagac aacgcttatt gagcacgtt gaatccatct acttccttcg agtgtattct 300
gccggagttg tggttcgtca gtatccctt gagtggagta tttgggttggaa aataaccaac 360
gaagacgaaa atacttcttc cgactct 387

<210> 2376
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-D9
<400> 2376

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cgtagcaaac catagagtcg ttctgtctaaa gcaggcctgc agtttcctgt tggaagagtg 120
agtcgttttc tcaaaaacgg taactatgcc gaacgagttt gagctggagc ccgattttat 180
ttggcagcag ttttggata tcttaaccgtt gacaatctt gaattggctg gaaatgcagc 240
acgtgctaat cagacgactc gacttgttcc tcgccccatgtt gaacatgcag tgccgaccga 300
ctaagacgtt gaataacgct gctctgttggaa gtgactattt ccacgggagg tgttttacca 360

tacgttc

367

<210> 2377
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E1

<400> 2377

aggagaaaag gcttgagaa atcggacttg tcttgctgc cttcgccag ttacaatatc 60
agtgttcct gtcattgtt ggactttcg agaaatgtca tgcttgaa gagaccaaga 120
caagcttgtt tataaggcctc gtgtaatctt aataactgga ggtgcagggt ttatcggttc 180
acacgtcgctc tcttatttgc tccggaaata tccggaatat ttaattataa actatgacaa 240
gttagattat tgtgcttcgt tgaaaaactt gagtgacgtt gcccaactatc caaactatcg 300
ttttgtcaag ggagacattt tatccgaaga tctcgctagt tacgtgctcg aaagtcatag 360
cgtagatact gtcattcata tggctgctca aactcatgta gatgc 405

<210> 2378
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E10

<400> 2378

ggttacaagt aggagacgaa gcacctgact ttgagttgaa agaccacgac ggtaatata 60
ttaaatttag cgagttcaaa ggaaaatatc ctgtagtcct attctttat cgcaaggaca 120
agacgtatgg ctgcacacgt gaagctgca gttccgaga taagatgtcg gaatttaac 180
aacttaatgc gaaagtttc ggtgtgagtt cggacagtgt agagtctcac aagtcgttt 240
ccgatgaaca gaagttgacg tttcccttat tatctgatga atgcggtaaa gtactcaagc 300
tatacgcgtg tatcaaagag catgttact atgcctggtc gctgcactta tgtcattgg 360
ccggatggta ttgtaccaca ca 382

<210> 2379
<211> 414
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-E12

<400> 2379

cacgcgtcag gaaagaggca aatacggaa agcagtaaaa gaagaaaagag aaaggaaaaa 60
actgagtatc aggaagaaaa gagggagtag atgaggaaag aaagatcaag gaagtaaaag 120
gtaagaaaga ggaaaggttt acgagagaag gaagtagaaa gaagagagtg taaggcggcg 180
tcataataga aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa 240
agccgtactg aagaccgaca caggtactcg aggagaaagg agacccaaat taaggtgaga 300
gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 360
agcagcacccg actgttttagc anaaacacag cactctgcag aaaagagaaa atgt 414

<210> 2380

<211> 249

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-E2

<400> 2380

acccacgcgt aagctagttc tttggttcc aaaattggcc atttattatt gtctcaacat 60
gtttttagt acaaagccaa ctggatatca atcacggtca ccgtgaaaga atccataaga 120
cactgtatac ttgtcgtccg ttattaacta cgaggtgaat cagtcttcat caagttttc 180
ttccaatcgt tgaatcttct ccctaagcgg actacatacg taataataac tagaagagtc 240
aaataaata 249

<210> 2381

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-E5

<400> 2381

agcggacgcg tgggtgatt tccaccaagt cacaagaat cgtaaaagag aaaatgacga 60

taggtttgt acatccactt ggaactagtg ttcaatgtaa caaacactac aaaactgcta 120
cttggccttc ccagtttat tccaagtctt catcgttct anggagaaac catgggggtt 180
gcaagtcgtg gtctcttgc tatgaaagca aggtggatcg gaacaagtac acttacagtc 240
atcctagttc cgtaaaacaa ggaagaggac caactatggt tgcttcgaaa acagagttgg 300
aacaacaagt aagatccaga ctagtcaagt tgtttgcgac gacaccctgc atgcccata 360
tggtgagact tgcttggcac gacgctggaa catatgtgc acagacg 407

<210> 2382
<211> 165
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-E8

<400> 2382

gaccacacgc gtacggacag tgcattccgc aacgccgtcc gcgtgacgca tctagatcac 60
gacatcanca catgcaaata cggttaacagc gaacgggtgtg cctaatacgatgtgtcaaagg 120
agtgagaaca gcatcaaacag cacagcatca atgtaacgaa atggt 165

<210> 2383
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-F2

<400> 2383

ccacgcgtaa ggaaagctt ggtccagatt cgattgagtt tatagtgaac cattccgaca 60
tgcgtttct ttgcattcgt tcagaaaacc tggataaaagt tcttggaaat aaagacaagt 120
ttccccaaact tgaaaagata gttttgatgg accgagaaaa cctgaataatgt gataactctcc 180
cagactatgt tttggatata cagaaactta tatctgatgg aaacgaatct gggcaagtcc 240
agccaggatc attggacgt atttcgtga tcatgtatac cagtggcaact acggggaaac 300
cgaaaagagt tatgttacca aacaaagcat ttcttgcgat agttgcccgtt atattaaagg 360
ttactgatca ttatcacatt tcttttagaca atactgatgt aacaatgagc 410

<210> 2384
 <211> 427
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-047-Q1-E1-F3

 <400> 2384

 gaccacgctcagcaaaag gagtctactc cttcacttgg tccttacgtc tgaggggtgg 60
 aatgcagata ttcgtaaaga ctcttactgg gaagaccatt actcttgaag tggagccctc 120
 agatactatt gagaatgtca agtccaagat acaagacaag gaaggatttc ccccagacca 180
 gcaacgtttg attttgca gtaaacagtt ggaagatggc cgtaactctc cagactacaa 240
 cattcaaaaag gagtctactc ttcaacttggc cttacgtctg angggtgaa tgcagatatt 300
 cgtaaaagact cttactgggaa agaccatcac tcttgaagtg gagccctcag atactattga 360
 aaatgtcaag tcgaagatac aagacaagga aggtatntcc cccagacacgc aacgtttgat 420
 ttttgca 427

 <210> 2385
 <211> 407
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-047-Q1-E1-F4

 <400> 2385

 acgcgtcagc ggacgcgtgg gcggacgcgt ggggcggat ttggaaagag tatggcag 60
 ttacaactat cttctcgta tcagactcaa gtacgatatg tggtaaaag ttatctgaga 120
 gagaatccaa aacagaaaaca tttactcgat agtcttaaag aagatacaat atcccaccaa 180
 aatttgtagc agataactcg ttggcgccc aaagatgctc ttccaccgtt ttggtnctt 240
 gtggcaagta gcacgtggaa actgccacct cccaaatgtc catatgacaa ttatcaacgt 300
 cctgcaatac tagacaaaag actagaagct cttcgtgagc gtcataaag aaagcgttat 360
 aggaaactaa tacaggactt accttagtctt gcgccaagcg aaacatc 407

 <210> 2386
 <211> 416

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-F5
<400> 2386

gacccacgac gtcaggttgt ggagtaagtgcgcttggcag caaactaaaa gatggcaaga 60
agaatcatcg gagcttatgtctgacgactgttagcgt ctctatttag cgtaaaaatg 120
ttgttctacc ttacaataact tgcgttctct atcactatttg tgggtcttat gggtaagagt 180
tccgacggta tttgggttca cagtgttcca gcgaaagacg aatattgtgc atacaagtct 240
tcccttcaag taaaccacca cggcatagct tcctattgca agtatacat ggctgttagca 300
gctattggtt tggttatcag cttcttcgag ttttggtatg cattcctcgg aattttcttc 360
aagtggcaac aaaagttgtg gtatattgaa tctgctatca acgtgtttt ctggc 416

<210> 2387
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G1
<400> 2387

agcgatgatt cgatgcggca caagacagtt gtggggcaa ctgcgcgctc gttatcatac 60
aactactact gtcctatagag tagcagcaga cgaagaaaag gaatctgtcg gtataaagcc 120
taaacgtttt catcagcctc ttggagttt tccacaagga accaatctgg aagaagttag 180
agaaaagtgg caaagtgacg ctatgaaact tatctgaaa gtaccccgat tagtagtcga 240
tggctatgtc atagcgtgta atggaggccg cggccatcca ggacatccaa tagaatatat 300
tcgtttggaa gcaccttatac cttcaacttg caaatattgt ggtttgcgt atatcaacaa 360
agacactttt gaaaagtggaa aaaaagaaaa taacgaataa taaaatggaa aga 413

<210> 2388
<211> 228
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G10
<400> 2388

aggcccattt tacatccgac aatttcagag aaccctgcta tgaaaacaca actggcatac 60
agagacgcca tttcaacag cttacggatg gcgaccacaa tgcaggatgt tcacgggacc 120
agaataacaa ggacgccact agcagttct tggccattca cggtgccca cccgtttga 180
ccagacttcg caagagaata tcggataatc atcacacttc gcgcttcc 228

<210> 2389

<211> 94

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G11

<400> 2389

aaagacaatg aaaagaagga taaggaaaaa taagggagg tggaatttga taggaaagga 60
ttattccac ttcttaggaa ggacgttact ggat 94

<210> 2390

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-047-Q1-E1-G2

<400> 2390

gaccacgac tacggaaatg gcggcttcg aggtcgagct tccccctggcg gacgttttt 60
tcgtgaagca aacaacaaca acaacaacaa ctatcggtcg cgcaatgctt acagtgaaac 120
cccatcacaa cttgttggaa tgggtatTTT tcaacatccc tgcgagaacg aactagttt 180
taagagtacc aacgaaaaga tcccgtttt taacgctcca atatttctgg aaaacaagac 240
gcagattggc aaagtggagg aaatatttgg tcctattaca gacgttcaact ttactgtaaa 300
accagtggaa ggtgtattag ctacttcttt tggtgtanga gacaaattct acatcggttc 360
agagaaactg ctgcccgttg aaagatttct tcccaagc 398

<210> 2391

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-G3

<400> 2391

agcaaaagga cataagattt aaacggcagc atggaggaag aaactggtag ggaacaacct 60
gaaacacaaa cagcagggga aactgcacaa gaacaaacag acagtccggc agtagaaaca 120
gagacctttt cgaatcaata tctagagcag cttatcttgt cgtacttcaa acaccaatgt 180
ttttcaaaaa ctgccgagtc ttttgcgaga gagattgctg ttgaagatac agtgaaagaa 240
ggttcagcgg aaaccagtga aaaggagact tccattgagt gccttccaaa gcaaatacaa 300
gtgctggaca aacatgaact ggaactgtta gatttgacga agacggtatg gcaactcata 360
aagaaaaggag agtgtttgcc aggtttggac tgggcanacg tggtaactg 408

<210> 2392
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G4

<400> 2392

ccacgcgtca ggagaacgac agtagcgatg ggattgtttt gtagactgtt tgtgaaaccg 60
agtcgtgtac cgcaaagagt cgtagagttt caaaagcgca aggccgaagg ctactttaca 120
tacaacgccc ggaagtacga ccgatacatc aacacaccta tttacctgtt tgtgtccttc 180
accggctttt atgcctttat tgacggttgtt cttggcgg cagggaaagaa gggaaagtcaa 240
tcgtgaatag cgtttttgtt cttgtggac agtcttatga actagtgatt cgtttggct 300
gccagttta gtttcttgta atgaaagttt ccttttttc cttgc 345

<210> 2393
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-G7

<400> 2393

agcggacgacg tggccacgg gaccggttat tggtcagct ggaggttgcg atgtatgtt 60
ttcacgagtt ggcacacgaa gtactattac tggtagcaggg acatattttt aggagaacag 120

tccatcggtc catattgtgg cagtacaacc gaccgaatct cctgttttat cgggaggcaa 180
atctggacct cacaagattc aacgaatatg tgcaggattt ataccgata tattggatac 240
cagcatatac agtgaactac tccaagttag ttcagccat actatcgca tggcacgaag 300
gatggcaacc gatgaagggtt tattggtagt aatatcttct ggagctgcag tttatgcttc 360
cattgttatt ggaaag 376

<210> 2394
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H10

<400> 2394

cacgcgtcag ctcaacgacg taatgagact cactcatttt ctgcgtgttt tgtcttttgt 60
agctgttttc ctcgtagctc atgcagttcc cggtggagaa gatgcattca gtttcagtca 120
gacttttggaa aatgcttctg cttcaggcaa cgccctctgtt attccagcta caaccaagat 180
ccccaaagtttta gaagtaacta gtatgcctc atcaaaggac aatggaaaag cagctcaagt 240
agacttttgca gattactcaa agggatatacc ttgcgcctagc tatttttacg ctcccttctta 300
cacatccat gtggaaatttc ctcaatatcc atcctatcca tcatggcctt cttttaatga 360
gcagcctgcc tttgggtggct tcgattccaa tgcaagttt ggaaagtctg aaattttcgt 420
g 421

<210> 2395
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H12

<400> 2395

ccaagcgtcc ggtgggtggatgcccctggatggagctacgttgtggcaac tccgctgtct 60
tgaaaagacat aactgcaagt attgaaaagc ctgacataaa atggataact aggacgaatc 120
tcagttacttgc tctgaattct gcagaaggaa atgttacggtttgacttgcggcagtgtat 180
gcttgaagga tatattttca ttgaagcttc tcgacaataa ctttaagtttgcgtgtttta 240

atgatgcctt gtttttagtt ttaccaggct tatcctttgt tattactggt aatcgatat 300
tctgtagacg ctcggacttg aatgaaacgg aagcattgga gtcctgctt tcgtttatga 360
agatatgccc cacgtacaag tcgttggag 389

<210> 2396

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-H2

<400> 2396

gccccggcca cgcgtaaggc tacgcattgtc gtcgaacggc ccgtaccgct taagaagagc 60
tcaaaggaa gatgtcgaaa acatttatt tctgataaag cagttggcag aatatgaaaa 120
agaaccagaa tctgttcaaa taaatgagaa agatcttgcgaa agagatggtt tcgatacgca 180
gcctccctcta ttttacgtcg ttattgccga agtttcgtt aggaacagaa tgtttggaaa 240
tgtgttagggt ttgcgttatg gtttatgtg tattcgactg gagagcgctt catttggaaag 300
atctttcgt gctaccacaa tatcgccgtc aaggaatang caaagctttg ttaagatatt 360
gtgctgaggt tgcccttgct gaaaagtgtt agagatatca atgaaacgtc t 411

<210> 2397

<211> 390

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H3

<400> 2397

agcaaatgca acaaacaggag acaaaggtaa tgaaatttca ttaccacatg atacaatgga 60
tgtctacggc atacgaggac tcttaaagtt aatgtcgcca agctggagaa cggaacaacc 120
cgattatttg ctacttacac ttggaataga cttgacaagc ctaggactta acttgaattc 180
tacggagccc ttgtatattt cctttgaaac tccgtttctt gatatgaacc gaggtctcta 240
tcatgaacca gaatatagtc ttccggaatg ttacaaaatg gaacaaaagc cgccatttt 300
gaaattgggt cattttagga agttcaatt gcaaacatta ttttatatat tttattgtat 360

gcctcgagat gcattacaga tacttgcagc 390

<210> 2398
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-047-Q1-E1-H4

<400> 2398

cgtaagggga cagngtgtgt ttgtgtgatt gggtggata aaggcgcta ttttcaaaga 60
gtccaaccta gtgagaaaaac atgaatccgg aatatgacta cctttcaag ttgttgctga 120
taggcgactc tggagtggaa aagtcttgcc tcctgtgcg ttttgcgac gacacttaca 180
acgagagttt tatatcgacg attggagtag actttaaaat tcgcacgata gaactggatg 240
gaaagaccgt caagcttcaa atatggata ccgctggaca agaacgttcc cgcactatca 300
cttcttcata ctatcgaggt gcacacggca tcattattgt gtatgacgtt accgaccaag 360
aatcgttcaa caatgtcaag aactggttgc acgaaattga tagatatgc 409

<210> 2399
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-047-Q1-E1-H5

<400> 2399

agcgtttatt ggaagacttg cctcctccaa aactggcact taatggcgct ggcggcCAA 60
cagcaactga acttgcacgt ttgcttggaa agggtggcac tatggtaact tatggaaatg 120
cttccggaa accatttagt attcctacta gtctatttac aacacaagat attcactga 180
aaggattctc gatgcttaat tggtaaagt ccaagtcaga gcaagatgtg aagaaaatgt 240
tgcaaagtgt cacacaaatg atggaaaagg accagttgaa gttttggatc gaaaggaaaa 300
agttggaaaca actcgaaaca acattagaag cgttaaccac aaaagaacct caacaggaaa 360
gaagaatagt ttttag 375

<210> 2400
<211> 357

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-H7
<400> 2400

gacccacacg taagggagga gaatggtgac cacccacagc tgccgcattt tgccaagttt 60
cgtttcaagt ggtttccaag tacagcttgc caaacagtta tcttcgtta ttcattcatg 120
aaatacatgt ctatggagaa aatgttattc gcaaaaaggtc gctcgtgttc gttccataacc 180
aacatctata gttgcaagtt acaactacag catatttcac gacgaccata atcgttcgac 240
agtaaaaagta gattcacgag aatcagccta caacttaaat aagccgttgg gtttggattt 300
ggaagaatca gaagatggaa cggttagctgt agctgataca gattctccag ggaatgc 357

<210> 2401
<211> 179
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-047-Q1-E1-H8
<400> 2401

cgacccaagc gtacgggagc aagcttggaa gtcgcccgcag tatatcagag attgtcacat 60
gtcaagtccg taaagcaagt gggtgcgta agctgtgtgg aagagtgccca cattgtgact 120
gcgaagaagt ctgtacgaga tagttcgact gtggggcata ttggagcttgc tagcgggaa 179

<210> 2402
<211> 290
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-A1
<400> 2402

ccccacgcgtc cgccccacgcg tccgcccacg cgtccgcgga cgcgtggct tggaactaag 60
gaaaaagatgg atgcaacaga acaatatatac agaagaaaagg aacgatagtg ctgaggacgt 120
cagctcaaac tcatttgcct gtgttgcgag tgcagttcc tcgaaattca tccaaactat 180
ggctgagaag gaagggtttc aatttcgtga aacattaaca ggttttaaat ggttgagtca 240
tgccgcttta aaactggagc aacaaaatttgc tcaactttta ttagcatacg 290

<210> 2403
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A11

<400> 2403

cgcgtggcg gacgcgtgg gcgatatgca ctcgctcgga acggttattt gttttgtgtg 60
ttgttagata ctgtatgtta gaatagttga caagaaagaa gaaataggat gaacaagaga 120
tatacgaata tagggacaac tgatgctcaa ggcaccagtg atgttatgt ttatctgaat 180
ttgccactt tacttccatt tcttgtagat atatatataat gtgtgtgtgt gtctgtacta 240
attttggact aaggacatgg tttctagggt ttattgc当地 aaagttgaat agtaactcgt 300
tctatatggt tcgttgagta atgtctagag ac 332

<210> 2404
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A12

<400> 2404

tgaaaaacga acgagtcctt tcggtagtaa ctgttaagaa tctgaagctg cgtaattgc 60
cgaacggtca cgtcacttgt atgaaaagta ctagctcaag gttacaactc gagcaaaaca 120
atactgcaat tcacttggc gatccattgc ttgcaagcaa cttaacgagt caaacagcga 180
ctcgaagaga caccaacggtt actattcttca caagattagg tatcgccctag tgcaacaaga 240
tacgtatata ttggtagtatt tgcaattttta tttcgcttca aaagatgcta tattttactta 300
caagaacaaa gtcacttcac tgagtgtctt tgatgcaacc gtcgttgccct ttatgacagg 360
cagagttcttca agtacattcaat gatacattct aaacaactat tggttatgt aacaaaaaaag 420
agtttacgct c 431

<210> 2405
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A3
<400> 2405

gtccgtgtca tctcatgact tgccctgtcc tctgttggag attatccgca aagtggtgca 60
tgaaaggat ggaacgaaga tgatagaaaat gttggcttcg ttcccttcca gtcattgggg 120
aagtcttcga atgaatgctt ccgttgcatt ctggcactt tccgacaaag ttcccaagtc 180
ctttcggat ggaactcgat tccttcgcca tatttggaaat ttgaatgaaa ccacatttcg 240
tattgtattt aatacgacga tggacgaatc ttttgcgtt gatatgactt ctacttattt 300
tgggccttcc tatgaaacgc tagaaatcat tcgacgtctt cctgatttggc cagatgcagt 360
tacttttcag actagtggag 380

<210> 2406
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-A7
<400> 2406

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atattggccc aaactgtcaa cttgtatgtt gttctgttga taacttggaa gacttcttgg 120
gtcagcaagt ttatgaacaa ctccagaaag tatactcgga taatgaaagc gttttgttga 180
agttggatcc tctcgcgaag ttgttggaa gaaatcttga acgattatgg aggagcgttgc 240
ttccttatggt gccccaaacct tcccgatgg atattgttc caccagaact gatacagacg 300
agatgcaagt aacagagcgt aaaggagttg tctcagtgcg acaaggccag tttgatttgg 360
tggagttctt gaaaacatat tgtgatttga cagagtctga agcaagagaa tcttagttatc 420
gact 424

<210> 2407
<211> 325
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-048-Q1-E1-A9

<400> 2407

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taaaggaaga gaaggaagaa gcagagaggg actatgagcg agaaggtgga tagtcagag 120
ggaaaaagcc cagaagccaa gataaggtat caaagtaaag aaagaaggaa aaggagaaga 180
agagaggta agcttataag cagcaaacca gagaggaaag cgtaaagca tgaaagaaaa 240
gaaatccgaa aaagaagaga aaaaggtaag aaagaagacc gaatcaaggt aagangtana 300
ggatcaagaa gagaagagag aatgc 325

<210> 2408
<211> 186
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B1

<400> 2408

acgcgtccaa aatgttagtca ctcgtggctc attaacaacc actttccgg agactatcga 60
gaacatgcgc ctatctaacc ttctgacttg tccctctgtc ttgcgaagaa tcctgaccag 120
ccttttattt tacgtcttc atatttcat ccgttattgt acattatctg cattttggat 180
ttggat 186

<210> 2409
<211> 261
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B10

<400> 2409

gcgtccacat ttgagtgttt tggtaactgg gctgaatatc cttctcctgc actatgtctg 60
cgaatattcg aataaagtaa ccaagtatgc aatggtttg gaatttccgg ggcggccttg 120
caaccttcgg aatccgtgga accgggttgc caccggaaat tctgttcaaa ccgttcacaa 180
ggatttaaga acacctacgt tggaaagga tgcactttaa aatcccgtgg gtacagagac 240
ctgtcctaattgatataaga a 261

<210> 2410

<211> 119
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B3

<400> 2410

ccgttccgct ctgtttccag tctctcagtt cttatgtcac cgggactgct ctctgtcacc 60
ccttatcgca gaatacggat tacctcagtt tgcaaaacag tccgtttcc cgggtctta 119

<210> 2411
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B7

<400> 2411

attggaattt ggtttcctt tggacattta gaacgcgcct ttcgtaccga ttggccgata 60
caaggtcatc cctatactta tggatatcct agtttgagat atgcaagtca atgttccagt 120
ggaactttc gtcaacagtt tgcaaggcat aagttggag ggctacatat atccaattat 180
tgcttcctc cctttgttat cttaaaggaa ctaacaggaa cggaatatgg aaacgaaact 240
cttcaaaata tgacaaagga acagtgtcaa caacttgtcc acgactgcc aaggccactct 300
tttggaaagaa ctgttcctt agaccaagtc ccagaagaag acttggatgc agtgtatatt 360
ccttggtttgc tcaagtgtaa ccctaaaaga tatccatcgt tgatgcata 410

<210> 2412
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-B9

<400> 2412

ttggaggcatt tctgcaacat ccctcgagag agaaatgtat aaggacggcc tctacgctaa 60
cagtcataga cagagcttt actaaggcaa attgagaatt ccaaactgga tagagctcca 120
tgtttggaa tagagcacag cccttactct cctcattggg tacacaatag aatctttct 180
tattcagata gaaattttgc taagtgcacg atacaacaag tgaagttcgc gaatttccgg 240

ctctaattcc atctctacat tttctgtaca gggtgataa ctagaagctg tcctcattcg 300
ccatgaagtg tccactatgt cacgtaacta tctattttag tgattcggat 350

<210> 2413

<211> 169

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C1

<400> 2413

gacgacgcgt ccgaccacgc atccgcgatt gcctgccttc tctcgacact cgttggtttg 60
tccttgaaa acacgtttta gagtcattcc aatggctgca gtaaccctta agagacagaa 120
gactgacgta cctggatttc tacattgaga aaatgctctc aacagcttt 169

<210> 2414

<211> 179

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C11

<400> 2414

ggacaagagc gaagttagtc cagcttgaa tgtgctttat gaacactatg aacacgctgt 60
gcctgattct ggccgatcag caaatccgcc tgacgggtt ctccagttca agtcagagct 120
gttggatagt actggtgata tgctacttgg gtaagctgtt gtttatgtct attttcatg 179

<210> 2415

<211> 342

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C12

<400> 2415

actgaggaga cataagatgg aataaaaaac caactatttgc cacaaaaaaaaaaaaaaa 60
aaaaaaaaaaa ataaaaaaaaaa aaattgaaaaa gaaacaacaa aattaaaaaaaaa aaggaggac 120
gcaccaaaag tttccaagct tacttaaacg tgctggccaa cttaatgctc ttgcggat 180
tgaccctaaa tttcattcat tggccttttc ttttaactcc ccgggtttgg gataactcgg 240

gctttatcta atttacccgg cttggaacac atctgcctt ccccaactgt cttttttttt 300
aacaagtccc catttttcc tcttccaag aattttcag cc 342

<210> 2416
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-048-Q1-E1-C3

<400> 2416

taatttggAAC aaggTTTgaa cgccTTaaaa aacAAACCTT accAATTAAC ccACCAAAA 60
agggtaccgg aaataagtcc cccAAGGGAA aattAAAAAT CCTAATTAAC caATAAAACC 120
caaggTctca aggaatttca aaAGTTTTT aaccanactc cggAAACTCgg taAGCCGAAC 180
tttgaagAAA accaactccc tatggagAAA atgttgctg tccAAcGATT ggCCGCTTCC 240
caagctattt gagagacatt tcgttaattct gccaagaatt tcgggttAAA atcCTTggAA 300
aaaatccatt ggtccttAA ctTcccAA ttgaaatCCA agtgcgttAA tttGCCAAat 360
taattgtgtc ctctcctcct agaccctgtt atttagtAgA atagatataG taatac 416

<210> 2417
<211> 369
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C5

<400> 2417

actcacaagt ccagagAAAT gttcagatAT tagaggtgtc aagataccAA actTTTCTGT 60
gcggTTTata aaaaAGTAGT ttCGTgagAA aacgcaAGAG acacctaATA ttagtagAA 120
acTTTgtaat gttcggTTT ccaagcgAGT ctgaagttac cggcgAAACA acagattCTC 180
ctagCTTaca agtgttttct cacggAACGC ctTCGACCTC tcatagtCTC ccggAAatCTT 240
cttatcatga gtattacgtg aagcataAGT attcactgtA tagAACGGGA ctgggtcgAA 300
aacacttgc agatccAAat tcgactcAtc aatcttcAcg gttggagct tatatacatg 360
ggagccAcg 369

<210> 2418
<211> 313
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C8

<400> 2418

ggtcgaccca cacgtccacc cacgcgtccg cccacgcgtc cgcccacgcg tccgattttg 60
tgttgttg tagtgatgga tagggactgg ggtgcaaaga caggaggtgg aggagttgcc 120
tccaaagaac aaacagatata ctcaagaaga gaaagggtgc gtcaacttgc tttggaaacg 180
atagacttga aaaaggaccc ctattttatg cgcaatcact tgggaggctta tgaatgc当地 240
ctgtgtctaa ctttacacac taacgaacga aattatgg cacatacgca aggaagaaga 300
catcagatga acc 313

<210> 2419
<211> 113
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-C9

<400> 2419

gacgacgcgt ccgaccacgc atccgccccac gcgtccgcct tggcatcgag aagcgatgaa 60
gggcgtggct accatcgata tgcttcgagg agctggaagc gggcttgat ccg 113

<210> 2420
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-048-Q1-E1-D10

<400> 2420

tcggaaaacg gtaacaaaat ggtaataact tcggaaaagg aaaaaacaat tggcccaaaa 60
attctcccccaaaattcttt cgtaaggcgc aatcctaagg gaaatatgg cggtgttgct 120
gcggagtatc aagtgcctac taagcaagtg gtgagcttgg gacatcnccga agcactggaa 180
ttggctgggt ttgctgcaac cgactttatg ttgagttgta tcaacgc当地 240

agcagtatga caaatagtat tatgcactt ggtttcttt atggagggttc tgcgagctt 300
attgccgta ttatgaccctt tgtaaagcag aatacgttt gttggagttgc attttcaagc 360
tacggtgccct tttggtaac ttttggagtt cttataacat t 401

<210> 2421
<211> 313
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D12

<400> 2421

tggcggttca caaatgttgc gctcaaggag tactccatat atttatcgat ggcgtcctgt 60
aactgttact cattcagctg accacaaaga tggcctaag gattcttga gaaccactca 120
aatcttcga aattcagaaa cttatcgtaa caaggacgac atgctgaaag ttgaagttat 180
accccacact ggcctaccag gtggaaagca tagacctcggt gcctctcctt gttcagctat 240
ggagaatgtg atgaacaaca ataatgactg gacttgtact gcttaggaatg ctccattcga 300
gatgcatagt gtc 313

<210> 2422
<211> 138
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D4

<400> 2422

acgcgtccga ttccgagttc gcatgcacct agtcgtcgat cttgtgattt cagtttccg 60
aattcttttc agagatactg tgatcgat gtatgtgctt gccctatcag ctgttacatc 120
acatccaagt atgggatt 138

<210> 2423
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-D8

<400> 2423

cccacgcgtc cgcccacgct tccgcgttgg taagcaaaca tgggagccta caagtatatg 60
caagaattgt ggagaaaaaa gcaatctgac gttatgcgt ttttactccg cgtccgtgct 120
tggaaatac gacacttgcc ttcggttcac cgagcttctc gtcccactcg tcccgacaag 180
gcaagaatgc ttggctacaa agcaaagcaa gtttatgtaa tctacagagt gagagtccgt 240
agaggtggta ggaagagacc agttccaaag ggtatccaat atggcaaacc taagaatcag 300
gttatcacac aactaaaatt caagagacat aagagatcag ttgcagaaga ccgagctgga 360
agaagggtgcg gaaacttgag agtcttaaac tcgtattgga 400

<210> 2424
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E10

<400> 2424

cgtccaaattc aatatcttta aatgagctac ctaaaaggga atcaaaaaaa ggttcccttt 60
gtggcctcgc gtggttccag tttgttccctt tggatattt gtttaatttt gatcactaca 120
agtgaaaact actcttcgac agagaaactc cctactataa ttcttggtaa aataaaacta 180
tttattccta cacttcttta taaaaaaaaa atcaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaagaagaaa acaaaaaaaaaa aaaaaaaaaatt aaaaagaact tatctgtaaa atctcaaacc 300
ttctaaaatg ttacctcaaa agatattcac ttgaccaacc t 341

<210> 2425
<211> 192
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E11

<400> 2425

gtccaaccac gagtccggca taaaacttggg acagagtctt ggaacttggg ctccctata 60
ttgcacacgt agtacctgtt tgctcacttg ctgctttgtt cttattccgt tcacccttga 120
tgagagttgc tctttcgagt tttggatgcc tattaagggtt ctccctcaact tacatttacc 180
caactcctgca ct 192

<210> 2426
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E12

<400> 2426

ccgccccacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc gcttgacaag 60
gacaaacgtt cttagcttc tacttgtgct cacatcttgt ctattttatt tgcgtttgac 120
gcaacctacg agttggAACc tttggatttg gtgattcagc agtgctccta cgtggcagac 180
tggttgagta gtaacttggt ggacaatgag tcaactccgg aagacttccg tcttgccgtt 240
ttgtcttcgt tgggtcagtt cgttcgacat gacagaccaa gacttgctt tgcctcgaaa 300
gataacataa agaatctgtc ttatgtattt gaaaataaca agcaagagcc tgtttcaatt 360
atttataaga caatcttgcgtt gttttggatg ttatcttatg cacacagtgc tgaggcaaaa 420
cagt 424

<210> 2427
<211> 363
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-E2

<400> 2427

gtccgactgt gaggtggcat acggagtgg attggcatat gttaaccag acgttccgac 60
gtgggtggaa ttccacgact tgcggaaagc tttgggtgaa gcacgcatta tggtagtctc 120
cgttttctac tgcacaggt ggagatgttag ttgtaaatcg acatcgactt atctgcagct 180
gcaagtgagc agattgctcg taatggAACc ccatggatgg tgagattccc gtttatctcg 240
tttctttgtt tggaaagctgc gctacgatag ttcttggatgtt ggagtcttagt tggtttggat 300
tacagcctta attttgtggg tggtaact catccttaggc tatatacgta aagttagacc 360
gat 363

<210> 2428
<211> 69
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-E3
<400> 2428

ctttggttcc cgcatgcgtt aagtttgagt ctgtaaaaaa gttcacgga tggactaca 60
gttttaatt 69

<210> 2429
<211> 380
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-E5
<400> 2429

atcttacga gaatccttct tatgtctcac cgaatcaagt tcgaagatcc ctgaaacctc 60
aacaaggcta caaacggagg ttgaagttga agcggaaagg agctcagaag actcgagtgg 120
aagagaataa gcttttatct gatcccgtt aagatatgtt tcgttcctaa tggtagct 180
gtagactttg tggcataat acacctaact ctatagagct gtaaaaacaa atagcggttg 240
caactaaaaa tgaaaaact acaaaataat aaaaaaaaaa tcaatgaaaa gtaaaaaaca 300
aataaaaaat aaagtaaaaaa aaatggagag tcctaaactgt aaggatccaa aggtaaacaa 360
aaaaaaaaaggc gcggccctca 380

<210> 2430
<211> 407
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-048-Q1-E1-E8
<400> 2430

acattccgta cgttgttgc tgctctcgta tttcatcaat tctttgaagg atttgctgtc 60
ggtaactactg tttccgaagc ccagttggc acttggacca ctatagtaat ggtactttgc 120
tattcttgg aaactccaat cggatatct attggatttg gtattgcaca cacttatcag 180
gaaaactcct cggcatctt gttacgaga ggcattttgg atgccatctc cggtgaaatt 240
ttaatataca caggatttgtt ggagtttgtt acttatttgtt ttacgcgcaa ctcgaacttt 300

ttaagacgca aagccataacc tatttttagt attgtggat ttgtctggtt aggagccatc 360
tgcatggcga ttatccgagc ctgggcctaa gaataaaatt gtttgag 407

<210> 2431
<211> 286
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-F3

<400> 2431

cgtccgattt caacaaaactg gaagctactt tgttctatgc caacagttt catccttggtt 60
tatttggaaaca cttgaacaac tgtcagacaa caagttgtgt ccccagagta tctctagtca 120
agaccgcgcg gaaaaaaacac ttgcgcagcaa caagtaccgg ttctaaagct aatctgaaag 180
aagaaggcagt agagactaac acaagatggg acgctccgccc tggcaattgg gaagagcacc 240
cgagtcgctc aggttccaca ttttccgaga taaagttgcc aaagca 286

<210> 2432
<211> 212
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-F4

<400> 2432

cgacgcgtcc gcggacgagt gggagagttt gaggatgttc catatgccac ttctacacct 60
tatccatcggt tatctccaag ttatactcct tcagcatatc aaacaacttc tgcttattaa 120
agagccgaag actggataga ttttgaagt gtctcgtgtt caaagaaaaac atgagacatg 180
aagcacacacg tataggattt ggtttttacc cg 212

<210> 2433
<211> 432
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G10

<400> 2433

gaccgacgacg tccgagaaaa tatcaagtgc aagatacaag acaaggaagg tattccccca 60

gaccagcaac gtttgatttt tgcaaggtaaa cagtttggaaat atggtcgtac tctctcagac 120
tacaacattc aaaaggagtc tactcttac ttggtcttac gtctgagggg tggaatgcag 180
atattcgtaa agactcttac tggaaagacc atcaactctg aagtggagcc ctcagatact 240
attgaaaatg tcaagtcgaa gatacaagac aaggaaggta ttccccaga ccagcaacgt 300
ttgattttt caggtaaaca gtttggaaat ggtcgactc tctcagacta caacattcaa 360
taggagtcta ctcttcactt ggtgtgcgt ttgagatgtg gctgttaatg agtttacct 420
gaagttgttt tt 432

<210> 2434

<211> 451

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G12

<400> 2434

acccgtccga ccacgcattcc gatcacgagc agtttcatca caagaaaata cagattccac 60
gcttatatcg aaagaagtat tagaatctca aatcatggaa atgctagaaa gagagaacta 120
tgaaggagca tttctcttgg ctctcgagc tagtaatttgc gacgtcgtag aatggctatg 180
tgagaagttt gattgccatg aattgtttca atctgatgag cctcccttgt cacaagtaac 240
attgctatct ctatttcagc agttagggtt tgaccttgaa agaaaaacag aaatgaaaat 300
ggaatggctg aaagaagccg tcatgttatt ggagcattca gatgaaatga ttcaagacta 360
tttttcagat attttgtcaa tggtggcgtca gaacttggaa catcttcttag aagctggttt 420
gaataattct cgactttcag ttcatttgca g 451

<210> 2435

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G7

<400> 2435

agtcgtctgt gcgtccgatt cactgcggac tgtctttcct ctttgcgtct cgttatgcga 60
tacttgcaact cttcagaata tgtcaagata ccacaaggag tatcggtgga agttcactct 120

agaaaagtaa gagtaaaggg tcctcgttgt gtttagttaa aggatcttc tcacgtcaat 180
atggaaatga cgaaagaaaa gtccggtaag agagttcgtg tgactgtatg gcatggctct 240
cgaaaagatt tggcttgtct caacacagtt tgcacgcata ttaaaaatat gatcacccggg 300
gtaaccaagg gctatcgata caaaatgcgc ttggtatatg cacacttcc tatcaacgtt 360
actgtgtctg ataatg 376

<210> 2436
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-G9

<400> 2436

gcgtccggtt gacagagtgt gttgataagt gtgagtataat taagttagta taggaaggag 60
aagggaagtc aggaggcgtt gttgataatg gaaggatac tgtagatgtt gtttagtgta 120
agagacataa tacgattta tataagttat aaggagtggtt agtgatgtt ggtggacgtt 180
ggagatggta atgataatag catgtatggt agtccattgg agcaatttga agtggatcg 240
ctgtataaga tggagataga aggaaggaa ataggataa gtaacatagg agtgtatata 300
ataatgtta gtatgtatgtt ggtaaagaac atgaggaaga aagaggatac tacggg 356

<210> 2437
<211> 449
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H10

<400> 2437

accgtccaa gtcgtatgac gttgggcct cattaagcca tcgttgaact acatctttta 60
tctctttagt cacaacaca aattaaagaa caatgcgtga ggtagtttctt ctacatattt 120
gtcaagcagg tggtaagttt gcaactttt gctggactt ctattgttta gagcatgggt 180
tcaacgcgtt gggaccatt gataaaaagg gaaacacagg atacgaagaa gctttggta 240
ccttcttac ccagacaagg tcgggacgtt atgttcctcg ttgtgtatgtt gtcgacttgg 300
aaccttctgt cgtatgaa gtcgtacag gtgcctaccg ccatctctat catccagaac 360

aacttatttc cgccaataa gatgtgcaa acaagtatgc aagacgacat tatactattg 420
gaaatgaaat agtcgaccctt actttggag 449

<210> 2438
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H12
<400> 2438

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tataaacaag tgagctatat actgcaagat cacggcagca atggagaaga tgaagaagaa 120
tcgcagcttt tttcgcttt cggggtagca gagcctcctt tatttccat gtcgttgcca 180
gtagtcacaa ctgctactag tgcgttggaa agcgcggta tgcaagaaaat acttcgacaa 240
gaaagtttc atctgcgtgc aagtgaccca acgataagcg atgaattatt tcaatccata 300
gttactcgag aaaagagatg gagtaggcgt ctatggagaa actttcgacg acaagtttat 360
gagagacgtt gtcgaataga agaagcagtc gttccgttgg ttgctcatag tgctgcgatg 420
catctt 426

<210> 2439
<211> 335
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H2
<400> 2439

acgcgtccgc ccacgagtcc gctagtcgac gagaaacaga ttcacttatg tattttgcca 60
ttttgggtat ttttggact tatggataac caaaaacaac acaaccatta ctcttggat 120
tgctgcaatg ctcaccacaa ccaaccaacg acagcggatc gttgcaacgg atgttacgtg 180
acgaatattc ttgtgaagag tgtgttggaa catttggacg agctgaatcg ttgtctgtt 240
cgagttcaag agttgttggat gttggacaag gaacacgagt gaatgaatgg tgccggcaagt 300
taggagaatg ccacaatacg gagacgttggaa tata 335

<210> 2440

<211> 281
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H4

<400> 2440

catcagacgt cgaatgggtt tctggacccg cttaacttagg gaaacgaaaa gagagcataa 60
tttcagcaac acacgggtta acttaacgtt acctttgcg ctatcagacc gtagtatata 120
tgccaaggct ttggagtctt tttattatgt ctattccacc gttgaagaag agtttgaccg 180
tcaaagaaga aattttccca aaatagggc gctttacttt gaagagctgc gaaggaaaaa 240
ggtatctcta gaacaaaacg tgcttttca atactaaaac t 281

<210> 2441
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-048-Q1-E1-H5

<400> 2441

cccacgcgtc cgatcaaagc tagtgatagc tggtactcct cgaaagctat ataagtagcg 60
tatgcaggaa agaagaaggt aaaggaagag aaggaagaag cagagaggga ctatgagcga 120
gaaggtggat agtcgagagg gaaaaagccc agaagccaag ataaggatc aaagtaaaga 180
aagaaggaaa aggagaagaa gagagggtag gcttagaagc agcaaaccag agaggaaagc 240
gttaaagcat gaaagaaaag aaatccaaa aagaagagaa aaaggttaaga aagaggaccg 300
aatcagggta agaggtanag gagcaagaag agaagagaga atgctgggtg gagtagcgaa 360
acaagag 367

<210> 2442
<211> 316
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-048-Q1-E1-H8

<400> 2442

aacctcaagt ggatcatccc acgttggtaa agatagactt gtctcaaggc agctttaaag 60

tactccaaga ctgtgacaga gatttagaat gtgatcataa taccaagttt cagttggAAC 120
ttattcagta tggctcttt tcacctggTT tttggacgAG agaaaATGTT ctgctttCT 180
atTTGGAGCT CGTGTcAGGT GTATTcATAA AGGACACTCT CTACCTTTc CAAAACAAAA 240
ggtaaAGAAC ATTTGTTGC gagTTAATG CTGTTGTTGG AGACACAAGT TTCAATGGAT 300
GCCAACATTA AAACAA 316

<210> 2443
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A1
<400> 2443

cggacgcgtg ggTTCTGGTT ggatttGTTG TGTCTGCGTC TGTGTTGCG AGTCGAGTTc 60
ataaaATGGCA AACGAGAACCC AGGGAGAGGT AGAGACATAT GAGTCCAGG CGGAAATTAA 120
CCAGCTTATG AGCCTTATCA TCAATACTTT TTACAGCAAT AAGGAAATCT TTTTGAGAGA 180
GTTGATATCT AATGCCTCAG ACGCACTCGA TAAGATTGG TATCAGTCTT TGACTGACAA 240
GTCAGTTCTG GAGGCGGAAA ACTTGGAGAT TGAATTAC GCAGATAAAC AGAATAAGAC 300
TCTAACTGTG CGCGATAACAG GAGTTGGTAT GACTAAGGCA G 341

<210> 2444
<211> 374
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A10
<400> 2444

aaaaaaAGAG aaAGGAAAAA ACTGAGTATC AGGAAGAAAA GAGGGAGTAT ATGAGGAAGG 60
aaAGATCAAG GAAGTGGAGAG TGAGAGAAGG AGTAATGTGA ATGATCGCAG GAAAGTAATT 120
GAAGAAATAGA GTGAAAGCG CGTACCAATT GCATAATGTC CCAGCGAGTG AAAAGGAAG 180
CAAAAGTCTC GAGGAAGAAG TAGCCATGTA ACGATCGAAG CTAGGTGATC GGATGCTGTC 240
CATCCGAACT AAGGCTTAGC CAATCTCTGT GGACAAAGAT GTGGCAGAGA TGGCAAAATG 300
GGTGACAGGC TACTCAGAGC TAGTGATATC TGGTACTCCT CGAACGCTGT ATAAGTAGCG 360

tatgcaggaa agaa

374

<210> 2445
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A12

<400> 2445

atgatttgat tcctgctgtt gctttgaaga atactaaaat gaatgttgcc ttaatgaaac 60
gtttcgccag cagacaccct gaggaaagtg aggctgttc gagtgcaact gttgcacaag 120
gagacggagt tccaaaggta ttgtcgaatg acaaaaagca actgccgcaa gacgactcga 180
tagaacatct catctcaagt gagattgaag aatatcagaa agtgccatgt taataaattt 240
ggatcttgtt caagtcgtaa aaaaataaaa aataaataaa aaaaaaaaaa aaaagaaaaa 300
caaaacaaaa aaaaaaaaaac aacaaaagcg atccatcaaa aatgatcaaa gctaaaataa 360
cctatccaga aaaccacata aataaaaggg gggggccccccc aaaa 404

<210> 2446
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A3

<400> 2446

catccagaac gctctaacct ttaaatacat tgagcatggg caatggttgc aactaatgcg 60
ctgagttgca tctctcactc tttccttatac gctgcagcag ttgcagccga cgtatttca 120
agaggataga tggggatatg ctcaacagac acaacaccag catcagtgcc aacaagtatg 180
tttacagtat gcatactatc acagtcagt ctgcactttc gtaaccacac aaagcccata 240
ctggacccaa tgctcgaaga ctgtgcaaaa ctttgtccca agccagtgca gtacgtatac 300
ccaatctcct acatggacct attgcagcac ctacaccacc actagcgtac catc 354

<210> 2447
<211> 288
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A5

<400> 2447

gctcataacct taaattctt gaggattggc agtggttgcg acttatggc tgacgcgcaa 60
ctctaacttt ttaagacgca aagccatatac tatttttagt attgtggat ttgtctggtt 120
aggagccatc tgcataggcga ttatcgagc gtgggcctaa gaataaaatt tgtttgagac 180
gtcgtggtgc agatgactcg catgttttgtt agttggttca agtttgacaa gagaaaaacat 240
ttgttgctac ttcttacaaa taaaaaaagtt caaggacaaa ttgttagat 288

<210> 2448

<211> 335

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A8

<400> 2448

aaaacagagt gacaagaaga gatggcaagg agaatattgg gtgcttatat gggagatgcc 60
acagtggcaa ctctgttcag tatcaaaatg ttgttctatc ttactatcat gggtttctcc 120
ataactatct tggctctcat gggaaagaac tcggatggta tttggataca tagtgtgcca 180
cctgcagatc aatattgtgc atacaagtct tcattggagg tgaaccacca tggaaattgct 240
tcctattgca agtataatcgt tgccgtagct gctattgggt tggttatctc gtttttccag 300
ttttgctacg gtctgttggg tatcttttc aagtg 335

<210> 2449

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-A9

<400> 2449

aaatataatg aaaagattta ttctttatgc cagaattat ttgaaagttt tcctttggga 60
catttggta tgggagaaaa ggagaaccaa cgagtattgg taattcatgg tggattattt 120
agtcgtgatg ggtaacact agaagattta caaaagatag atagacatcg agaacctgac 180
caaggtctca tggcagaatt gttgtggagc gatccacaaa aggaatttagg attaggagtt 240

tcaaaaacgag gaattggagt atctttgga ccagatgtga ctcgacgatt ttagatgcc 300
aatcgaggattg ctttggtagt aagaagtcac gaaatgaatg aacaaggata tgaaatagaa 360
gcagataata cattgattac tgtatccact gctcccaact attgcgacca aatgg 415

<210> 2450

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-B1

<400> 2450

tttgactga aacatgacgg aaagcgacaa gtcagtcgcct gttgtttct caggtccatc 60
tggagctggg aaaagtacta tcataaaaaa gctgaacaaa gattaccctg atccaatagg 120
atttaccgtta agtcacaccaa caagaccacc gcgaccgggg gaacaaaacg gagtagaata 180
ccatttgtt tccgagggaaa aataaaaaa aatgatagag aatagtgaat ttatagaata 240
tgcaatgtt catggaaatt attacggAAC aagtttcaa gcagtaaaga gtgttctcaa 300
tagaggaagg ctgtgtgtgc tggacgtaaa cgttcaag 338

<210> 2451

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-B12

<400> 2451

agaattatcg gttgcatac gatggctttt actcctctgg aggaagaggt tttcgaggta 60
gaggtggccg tagaggaaga ggttagaggca atggaatatc caagtttgt tctcgaggta 120
gttcatccgg tggcgttgt ggttagaggta gcggacagaa acgtggcgga atgaacggcg 180
gttccaaagt gtttattgaa ccgcacatcgac atgctggagt tttgttgca cgggggaagg 240
aagatgtct ctgttaccacg aacttggttc ctggtagtc cgtatatgga gagaagcgca 300
tctctgtcga agtagaaaat ctcaacgatc cttagttat agagaagata gaatatcgag 360
tatggaatcc attcgattc aagtttagcag cagctatcc ggggggtgt 409

<210> 2452
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-C10

<400> 2452

acccacgcgt ccgcccacgc gtccggccac gcgtccgcga ctcacaggcc tggatggaat 60
ttgtcgatca ttgtcttgg gaatctaggg attctcatac agcagacagt tttagtcgact 120
tttgtcatac tgtatgtctt ccctgagact tgtcagttct ttaggaatag aacctcctat 180
tctttcatgg agtaaataga aaatgaagta aaaggaggga atgaaaggaa gttatggcac 240
aaacacgtgc catcagcagc ggtaaaacgt gtgttagcaag cgttagagcaa atcaactggg 300
tgtacaggc gagtactaga gtaagtgtaa aatggatagg atatgacaga aagacgaatc 360
ggatgaaatg cacagatctc t 381

<210> 2453
<211> 186
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-C12

<400> 2453

actgacgcatt aggttgatgg gtgttgtag tggatcggtt agaattgtta gccgttagtt 60
acgctccag ggtgcgaggc actagtgcctt cttgatttag cacaggcaaa gttaaattgc 120
aagcttgatc aagtcaagta tgcatagagt gtgaacaatc agagatagtt cagtgttagc 180
tactgt 186

<210> 2454
<211> 333
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-C6

<400> 2454

acccatgcgt ccgcccacgc gtccggatgc aacattaaca aaacgcggat cgactgcaag 60
attcgtctcc agataagctt gtaagttagta tgccttagcaa gggaaatagt tcttagacgt 120

tcactaggtg aaagaacagg aagatagttt aagacgaaag tacgtaact tgccggataa 180
aaagcacctt ctccagcaac tactcaatgc gaaccacatg cactaactaa aatttttgta 240
ctctgcagac gcaactttgg ccaaagttagg aaaggaatttgc gcctaagaag ttggcttggta 300
atatgcctac ccaaactctg aggtgagtg ctc 333

<210> 2455

<211> 352

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-C7

<400> 2455

acccacacgt ccgaacatga cctcggtcaa gtaaagaaac agctcttca atcgcttctg 60
ataaaaaagaa aaatgcaaca agagatagag ctgaaaaat ctaggcggac gcgctgaagg 120
atacgttctt catthaagcgt gcaagccacg tcgcccagatc ttccaagctg tgcccccggt 180
tcatttcagt gggcgtcgtt ctgtacgtc gtaatggca ctgtccgtac gttactcaac 240
gtaatctctg tgcaatttgat gtcatttcg cgagtcgggtg tcttaccgaa tagtcctct 300
acgtttggtc tgccatacag ttacccttgt cgaacggcta ttgggacacc cc 352

<210> 2456

<211> 244

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-D11

<400> 2456

aattataacgt acgtacccaa ttgtcgcaaa ggcttgcaaa gttttcccat cctttcat 60
tacttctgtt acagtatcac atcgccgtta tttcaagatg aggtcttaca tcaagtgtact 120
gatgcactca aattggaact ttctacctaa tgtgaaggat accgcccattt gcaactttac 180
tggcaatatac cttgggttgca aagaacgattt ggaataggctt ggaattactc ggttaacatac 240
gatg 244

<210> 2457

<211> 233

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-049-Q1-E1-D3
<400> 2457

cgtccaaacca ctagtcagcg tcatgaccgt tctggaatgt aagtgcgtt tggtgattgc 60
acatccctct actggactat cgtttgaaaa acatgtcgct gcacctttag gtgcacatgt 120
caggtgtatc cgaagtgaat gcaatttggt accagattt cgggttaggc atcgtagat 180
tcgctgaagc cacagcggga gatcatctat acacgccgtg cccttatacg gga 233

<210> 2458
<211> 336
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-049-Q1-E1-D7
<400> 2458

aggtgattgg aacggctctg gttgtcacac caactttct acaaagccga tgagagagga 60
tggcggttac aagaagtata ttttgcagt gatggaaaag ttaaaggcaa aacataagga 120
acacatcatt gcatatggaa agggaaatga aaagagactt actggaaaac atgaaacggc 180
atccatcgat agtttcttt atggacagg aaatcgtgga gcttcagttt gaattggcaa 240
tcaaacagca aaagatggca agggatactt tgaggatcgt cgtcctgctg cgaatatgga 300
tccgtatatt gtcaccatgc ttcttgtctc tacttg 336

<210> 2459
<211> 155
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-049-Q1-E1-E10
<400> 2459

acccacgcgt ccgcgtatat cagaaagtca gtgcaaggaa taaaaaaaaaa aaaaaataaa 60
aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaataaaaaa aaaagaaaaa 120
aaaaataaaaaa gggatggggg tggagctcat gaggt 155

<210> 2460
<211> 319
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-E11

<400> 2460

cccacgcgtc cgaaaagaca gagaagttag acaataccat cgcagccgtt ctgaacacccg 60
acacaggtac tcgaggagct ctgacactgg ctcatggta gaacagttag gatgagggaaac 120
tatgcatacg gatatcgat ctgcggcgtt acctatgata caatcagcat ctatggttt 180
gcatacatac agcactctgc acaacagaga aaatgtattc tagaaagtgt gcggcctgtc 240
acatagtaga gaagacatcg atgatactga cagcggatcg atgatgaggt acacacaata 300
gctgtcctaa ctgtcatga 319

<210> 2461
<211> 336
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-E5

<400> 2461

agtggatttg ttgcaagttt gttgggttct ggactttaag gcatctctct tctcttggtt 60
gtgtgactgt ttttagatat tgtgaaagat gggagtcaaa gttggattttt atgggtttgg 120
gagaatttggaa aggcttagttc tttagagctgc ttggagaaa cagtctgttag atgtggtagc 180
tatcaacgtt ccctttattt atttggacta tatggtctac atgttcaaattt atgactctgt 240
gcacggcgct tatccaggta cagtggtagc aaagaatggaa aaacttgtcg tgatggaca 300
cgaaatggca gtgtttgcct tccgttgacc tagtga 336

<210> 2462
<211> 246
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-E9

<400> 2462

agaacacgtc gagcaacaaa taagactgga ttcttcttgtt agagtaaagc gacaataaaa 60

ctatatttgt agtcacgctt gttcaagagg gaggcatgag gattctcgta tggaaagatt 120
gatgacagaa ctgcagcagt tgctaagata gacttatgac catgtatata tgatgtgaca 180
atacacatat gagacgttta ggtaactgtt gatgcattgt atgtttgat attagatgt 240
caaaaag
246

<210> 2463
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-F5
<400> 2463

gaccacacgc gtccacccac gcgtccgccc acgcgtccga tgaaaggat gaaatgcaga 60
gatctctaga gaaaggcaag aaagaaaaaga aaggaagaca cagtaaatga ggcgagaaag 120
cataggaagt gaaacggatt aggaacccgt gtatgttatg cagtaaaaaga aagaatgagt 180
aagaaaaaaag ggagtcattc caccagggga gtaaaggcgc aagaaagaaa cccaaagcaa 240
ttgacgggaa tcggaaaaag gggtgatca cgtacattaa tccgatataa accgagaacc 300
ttacctctcc aagaaggtgt tgcacggctg tcgaaagaac gtgctgtgaa gtgag 355

<210> 2464
<211> 315
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-F9
<400> 2464

accatgcgtc cggtcttcgt tttatgcgag aatttcgttc ggatgtatgcg atcacgaaat 60
agatgcgttc gactattgtat ggtcgcaacc actttgtat atctgcgggt agacgttccg 120
atcctcttat gcgaaattca taagacgaac gtgtgaaaga atagttgcac tttgctaacg 180
gaaagtttgt aaatcactcg gttcgattt ccacggaaaca taatgaagtt gtgttgccta 240
agataatctc ttggatagt gatgacgttc ctaggactgt gcatttccttgc ttgcgttggg 300
ttataactaca attgt
315

<210> 2465
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G11

<400> 2465

aggtgaggtg ggaagcaaga agagatgagt agaggaagta gtgccggta tgatcgacat 60
attactattt tctctccaga gggacgacta tatcaagtag aatatgcctt taaggctgta 120
aagtcagtag gaattaccac cgttgctgta aaggggctgg atgcagttt gggagtaact 180
caaaagaagg ttccagataa gctcattgac cctaaatcag tcaccaatgt tttccgaata 240
tcggatcacc acggctgtat tttcactgga ctgcacgg acgcaaggc acaactaca 300
cgaacacgat cgaaagcgc agatttcaag tttaagttt gatacgaat cccgggtgac 360
cagatagcga aaagattggc ggacatcaat caagttata cgcaacacgc atata . 415

<210> 2466
<211> 362
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G4

<400> 2466

ggccgacgac gcgtccacaa cagattata cgtttcttgt atgaacgggt cacaactatt 60
tcgtcctgaa ataacagcag actgcatttc cgaaatggac aagtgtgtgt cattgagagg 120
aatcggttca agtcagttac ttttgagaa gcttcttgcg gaagaaggag agacatatcg 180
tttcactgta ttttattctt gtgaaaaggc aagaagtgaa ggaattattc atccaaaact 240
tgtcttaaac ttccacctt ttcaacctgt aaagcttcaa tggaggaagg actgcgggtgg 300
aatgctggcg tcctctataat ccgttaggaac tacatggcat ggaagtgata ttatcaacca 360
ag 362

<210> 2467
<211> 339
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G5

<400> 2467

acaactggct cctgtttaca gtccatcgat acaaaaagtc aagtatgtc tttgctctgg 60
aatagacatg ataaggagat cgtcagcagt catgggttt cacagaatca gcttacgta 120
tggaaatatac cttcgatggt aaaaattgca gagttaactg gacacacttc gagagttta 180
catttggctg caagtcctga tggtaaaaca gttgtttctg gcgctggta tgagacatta 240
aggttttgga gaatattcga ggcagcagaa tcgaagctgg attctccag taagacatgg 300
agaagttcgc aaaagagtat gatgaagaca tgtaacatc 339

<210> 2468
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-G8

<400> 2468

cgggccgacc caagcgtcca gaaaaatgtt tgtcaacctc catatcattc cataccgtta 60
tttagatccg tttgcttgta tgcagtggca ttagaaacca actttatcgt ggatgaacaa 120
gttttggaga actgtataga ctatttgtgg aatgataatg actgtgttgg aaaggaggaa 180
ataggagata tttcgaagaa tacatatcgt cttcccattt cttggacgat tgctcaacgg 240
ttaggaatat cgctccattt attcatttc attgttagtg tttatcctgc aaaaatattt 300
ggactacatt gcaaaggaaa actggaaaga ggttatgtg cagatatagt cgtttgga 358

<210> 2469
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H11

<400> 2469

agaatcacac atcatgacca acagcaacgt cgcctttgta accctcttgc ctccaaacac 60
tcctagaaaat aagctttgt tagggaaaag acaacattca tgtaaacatc cgagtcacaa 120
tagttataca aagtatcaag atgctgctt caagtgcattc ccactgcaag caaaggaaga 180
tggccaaaag ggaggtggaa agttcaatcc ttttgcggca cttggaaatg ttggaaactt 240

tatggacgcc gtgaagaaaag cacaggagtt ttcaaaggaa gctggaaaaga tgcaggaaga 300
gttatcaaag acagagctga aagcttctgt aagtatttga acaaatacat gtttcttga 360
ctttgaaac tagtcagagg acggttggc ccacgcatac ataac 405

<210> 2470
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H2
<400> 2470

ggccgacgac gcgtccagtg tgcatttct atggcttttgc ctttgcgtgg tctagcgagt 60
ctttcaagtc gtttgagtac ttggaaacag gttacaaga ttgttaactgt tgcaaataat 120
tttgaacgag aaagaggact gcgactggtg agttccttcc aaagtgcgcg gcagtggact 180
tcgttgcaag gtttgttatg tcgctataga agtgacagcg ttgtggaggg agggaaaaag 240
caaaaggag tcgctactga aagaagtccct gtttctacag ccattcccat gggttatgcc 300
gatgaatttt ccatcacgtg catcggttgc gtccaggaga tccaagtaaa cgaacgg 358

<210> 2471
<211> 335
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-049-Q1-E1-H4
<400> 2471

ggacaatgaa catcagattt tggtgaatt ggataagatt gctcctaattc tgcttgctgg 60
tgataagtta caaagtgtca aagcgcaat agaggaagtc gtacagaaat atgaggcaac 120
aagacaagag gcaatggaag caacgcgaag gttccaaaag attcgtgacg agcgaaggaa 180
gcgtttctt tcatgtttca atgttagtttca ttcgaatatt gatagagttt acaaagaact 240
tactcgaaat tcagtctcgc agttgggtgg cactgcttat ttggcactag aaaactacga 300
agaaccttat ttatatggaa ttaagtatca cgcta 335

<210> 2472
<211> 376

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-049-Q1-E1-H9
<400> 2472

actgagtgcc agtcagtcct tgcgtcttc ctggctcca cagttgaacg cagacgttcc 60
tgataacttgt aaagagtgtg gaagtgacga ctgggtgaa gaccacgccc aaggagacgt 120
catatgtaga aactgtggtt tggtagctgc ggaaagaatt gtagacttgg gttcggagtg 180
gagaaaacttt gaaaacgatg acagcggtac agaccctagt cgtgtggag ggccgagcaa 240
ccccctcctt gagtcgggtc caagtaccgt gattggagga gtagtatcg actctaaaag 300
tttgaacgca cgtttaataa gggctcagaa tagacacagt acttcaaaaa gtgaccgagt 360
tttggat gcgtt 376

<210> 2473
<211> 255
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-A3
<400> 2473

tctttgtct tggacaatgg ttgcaaagac tgctctgagt tgcctcttc tctctttcct 60
tatcgctgcc gcagttgcag ccgacgtagt ttcagaggcg agatgggat atgctcagca 120
aacccaacaa cagcaacagt gccaacaagt atgtcaacag tatgcatact atcagagtcc 180
agtctgcaca tccgtAACCA cacagagccc atactggac caatgctcga agactgtgca 240
aacctttgtc ccaag 255

<210> 2474
<211> 307
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-A7
<400> 2474

acgcgtccgg gtgtcacctg ggtctattgt gtgcatttag tgcattttt ccatgcaatt 60
aatgaatcac ctcacatgct gtattatcta atctataccg gtttagaatcc tatgctaact 120

agatttatat tgacgtgata ctagtgcac agcttagaga tatatttgct atggcgcaga 180
gcacatcgatg ctccattgtt aatcatatat gtgaacgtat tacgagtgaa cttcgttagac 240
ttgccgctta atctaggcag attccattca cttctcggtt cgtacagact gctgtacgtc 300
tgttgct
307

<210> 2475
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-B11
<400> 2475

agtagagatt ggaaaaat tcgtccacgc ttcgttccgt tactttttgt cgtgacaagt 60
tataatataa aatggccaaa gtaaacccctg tgtcgctggc tcctaaacta agtgttaacta 120
gagagatagc tatcggtatt gggcttggta tagcggttaag ttttacgccc agggctttgt 180
agagagagag ggagagagag agaggggcgc cacagtagcc aactgcaaag aagagaggcg 240
tggaaatattt tgtggaatac atggacctaa ctttggtttc tagtgtgcta tggatattcg 300
ccagtggcat ctcggataca cgaaaaatgt aagaaaaat tatcgcgagt tggatgaaca 360
agaacagagt tcctcggtt cgtaaaaacc gccttggtt tgtgagatag caat 414

<210> 2476
<211> 217
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-B3
<400> 2476

tccggaagac acagtaaatg aggcgagaaa tcataggaat tgaaacggat taggaaccccg 60
tgttagtctat gcagtaaat aaagaatgag tacaaaaac gggagtcatt ccaccagggg 120
agtataaggcg caagaaaagaa acccaaagca attgacggga atcggaaaa ggagtggatc 180
acgtcaatta atcagattaa accgagaagc ttacctc
217

<210> 2477
<211> 369

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-C1
<400> 2477

atggcacaga atgctgcccg taatacgctg aaaagtaatc aaatacgact aagatattt 60
cgcaacttga ttctgggttc taactttcc tacgttgttgcgaatttt ctttgcaagg 120
catagttta ctgttgcaca atttcgttta tggttgattt ctcttacctt cgttgttgc 180
agttattttct tcttacaaga cgccgcaaaa ccaacttttgc agagaggagt cctgggttgc 240
ggaggctacg acatctccag caaggggttg gatgaaatat tgtcacgaga tgattttagat 300
ctgttgtttt acagtcgtct gtgccatttt ttccaacaag ttttgggtca cgttgttgc 360
gataccaac 369

<210> 2478
<211> 351
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-C11
<400> 2478

cggtcgaccc acacgtccac ccacgcgtcc gcccacgcgt cggatttac gaagtgcaca 60
gtgcctacta tcaaacccttt ttgactgttt ctggcaagtc agctaattcggttccgggt 120
tggataagaa aacgtggat gcccatacgta gtgaagttaga gatgcaagtt ggtagtctg 180
ttgttagatgt gtttttcgt gtgcaagtaa aggtttttt gtttgcgtgt cgaaaaaaaaa 240
aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaagg 300
gaagaagaac aagaggata agagaaaaga taagggtgtaa tgaaaagtaa a 351

<210> 2479
<211> 281
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-050-Q1-E1-C3
<400> 2479

ttagatatg agacgtgtca agagacaaaa cttttctgtc cggttacaa aaaataagtt 60

tcgtgaagaa aacccaaga acgcctaata ttagtagaaa ccttgtactg ttccggttc 120
ctaccgagtc tgaaaatacc ggcaacacaa caaatcgcc tagttacaa gtgtcgctc 180
acgggacgcc ttgcaccctt cataatcccc cggaatcttc gtatcctgag tatttcgtga 240
aaaataagta ttcaactgtat agaacggac tgggttgaaa a 281

<210> 2480
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-D5
<400> 2480

cgtccaagcg aaacaagaga aggaaagtaa aaggttaagaa agaggaaagg tttacgagag 60
aaggaagtag aaagaagaga gtgttaaggcg gcgtcataag agaaatccga aaggagtaga 120
agaaaagaga gagaagaaag aaaagaagag aaaagccgta ctgaagaccg acacaggtac 180
tcgaggagaa aggagaccca aattaaggtg agagaatgga cgataaggaa ctaggcaaaa 240
ggatatggta tctgcggtag aacatatgaa agaagcagca ccgactgttt agccaggaca 300
cagcactctg cagaaaagag aaaatgtaaa gtatagagtg tgccggctgg caaatagtag 360
agaagaaatc gatgaaagtg aaa 383

<210> 2481
<211> 452
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-E10
<400> 2481

ttcccgggca acgaacaatc acgaagaact ttgagaaaga attgtggtca aaagtactct 60
ttatggaaaa tgattttagg aaaacatcga ttacctcgta catgttgctt tttggctgct 120
tcaagagatg cctcattcgc tgcagcttt actattctac caaccgcggg agaaccgcaa 180
aagaatactc caacagcttc cggatcccga ataaagtctt ctctctcgaa tatattgaa 240
aataattggc tccattgcgg tttccgata tgatatcgaa ttttgagga gttttctggc 300
agcgagagtt cattgacaac tcctgtaaca aagatatcta tttgaacatc tacaggactg 360

tcttctgaaa ctattcggttc aaagtctcga aagaaccagt gaaaaccatg aactgttctg 420
ttgacccaaa taaagtgaag tgactttgat gg 452

<210> 2482
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-E11

<400> 2482

attttccaa atatccttg cgaaaacatg ttgcgtctac tcacgaaaag tattgcacca 60
gttactaaaa gcattttgtt atccacagta aagtataata gtccttgca gctgagtaaa 120
gcagagatat ggagagcttc ctatccaatt ggaaggcagac gttccttgc agaacaaaag 180
gcacagcagc agtccaaaga aggtgaagaa ccaataacgc cttatcaacc tgtgacggag 240
aagctggata aaagagaccc aaactaacct tggaaagtgg aaggtttct tcctgaacat 300
agctacaaac ccaacacctaa tatcaatctg gaaaggcatc atacaccctt aaagatttag 360
agatagggta gctcgaaaa atcgtcaagt ttttaagatt ttttgccgat gccttttgc 420
agaaacga 428

<210> 2483
<211> 290
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-050-Q1-E1-F5

<400> 2483

tagaggact ttatgtcgaa taggaggaga aaactcgagt ggtacgttgt ggctgtctt 60
ctagtagttt gttgctcggt tcgtcaagtgc tcgtccttg atttcatatgc cgaagcttgt 120
tggcaggctg aagacgtttg tttcgaggac gacatagaac aaggagggtgt cttaagcggc 180
aactttgatg ttttggaccc tgaagagtgc gatgtcgatg tagagttggat tcgagtgccg 240
cgagaaggag ctccccagtg tgagtggag tggagagggg taaggggggt 290

<210> 2484
<211> 332

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-A5
<400> 2484

agcccacgctccgggtttagtaatattttaccgtatttgaaacaaaggattggacggt 60
atctattgtcatacaaccaccgcgtgcagacattagaaatgaaaaccgaaaagatataattg 120
gccaatgtta ttatcgatga acaacaatatcgattgtcttgaccaatactgccaattg 180
ttatgcattg ctgcttataatggcttctcatatttccccaa aacgagactcgaagatattt 240
acaaagaaatcgacgcgtgtcaaaaaacatcgcaggagaa ccaactcatc cactctgaca 300
gaagccatttccttcgttt agaaagactgtt 332

<210> 2485
<211> 424
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-A6
<400> 2485

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caaaagttt agattggatg aatgctgatg aaatgttatacgagaggctttaaagaacata 120
tttatgaggt tttccaatataggccggcacactggcaagt tggcacttttctccgcccact 180
atgctgcagg atgtacgaaa aatgacggag aagtttatgagatccagt tgtgattttg 240
gtgcagaaag atgaacttacactggAACGTatcagacaatactatatacg agtggaaagtc 300
gacgagtaca agtttgatactttatgtgacctctacgaaa ctttgactgt tacgcaggct 360
ataacttacgtgaataacacg gacgaaagtt gactggctcacacaggagtt gcgagaacgc 420
gact 424

<210> 2486
<211> 391
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-B10
<400> 2486

cccacgcgtc cgtctcaccc caactagtag aagaatatgt tggcgttac ttgtctcaca 60
gactgtcggtt ggtagagac ttctcgattc tccagatgtg ccaaagccaa taccgtctcg 120
ttgcgacgta gttcccagtg ttcacactct tggaggagtg tttcgatgaa ctacagtccc 180
tattcgataa ctaccgacaa atcagaagga catattgttc ccggtaacttt ttcaagattt 240
gagtttcttg aaggtcgagt caccggtcca accgtcttga accctagcat acttgacttt 300
acagtgtcca atgtttcaga tgctgccttt ggagaatgga gagcaatatac ggcttcaagt 360
agagcaaaag aacttggaaaca cagaagaaac g 391

<210> 2487

<211> 383

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-051-Q1-E1-B4

<400> 2487

acgcgtcagc ccacgcgtcc gtttccaact tatgtcggtg cagcaggaac gactattact 60
acttggtttg tgaacgcttt caactttgcg ctttcattct cgtggccttc tatgaaggct 120
gcatggggac ctcaaggagg tttcggttac tatgctgggtt tcaactttct tggcatcggt 180
atgcagttct tattcttacc tgaaaccaag ggcttacat tggaacaaat gagagtcgtg 240
tttggaggagg gtttattcac catcgagct tatcaactgtc gtgctgggtt gagaacactt 300
cgtaagcttt tggacttcc agttccagac actcctcttg tttctcccta ctataacgcc 360
tacgctattt accgcgtta gag 383

<210> 2488

<211> 95

<212> DNA

<213> *Cyanidium caldarium*

<223> Clone ID: LIB190-051-Q1-E1-B5

<400> 2488

cccaagcggtc cgaatggca tagatgtcat ggtaaccaag gaaggtatcg tgcaacacat 60
caactttcaa aagacagcct ccaaatgcaa ctttg 95

<210> 2489
<211> 363
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-B9

<400> 2489

cccacgcgtc cgccccacgca tccgcgtttt ttttggtaaa agaacatggc agttggaaag 60
aataaaacgcc tttcaaaaaa aggcaaggga gtgaagaaga ggttgacaga tccgtttctt 120
agaaaggaat ggtacgacat aaaggccccca gcaatgtttt ctcaacgtca ggttgaaag 180
actttggta ccaagacaac cggaacccaaa attgcttcgg aatcactgaa aggtcgagta 240
tacgatgtttt gtcttgccga cctgagtagc aacaaagacg agagttggc gtacagaaaa 300
attcgtttgc gttgtgagga agtggaaagga agaaaactgtt tgaccaactt ttatggatg 360
gac 363

<210> 2490
<211> 109
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D10

<400> 2490

acccacgcgt caagtcaactg gaaagtattt gaatagtaag ttgatacttt gagggcctgct 60
tgaaaagtgg aatcataactt gtctaccaag aatgtctctt cgtttcaca 109

<210> 2491
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D3

<400> 2491

gtccgtttga atgacagaat taggttagtag taagagacag ccagttgggg ttcaagagtc 60
tccaagaaca agtgcagaaaa atgagaaaaa ggaagctata gctaacttag ctgtcatgtt 120
tccaaacttg tcgcgcactg agttatcgaa cgctttggaa gctaatacgat attcagttca 180
aagaacggtt gactacatac tctcgaaaaa gtcctcctcc tcacccggccg cggcagcaga 240

agatgcgtcc gaagttgccg ctcgcacatcg tcaggttagag gaagacgaac gtttagctcg 300
tgccttgcaa agcgcttatg aacggaaaaa taatgttcaa agacagacca tgtctcgaac 360
gagttggac tcatcagcag cacaaactcc tttgttggaa aagctcaaata tatacgaaag 420
agc
423

<210> 2492
<211> 84
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D4

<400> 2492

acgcgttaagg tcaatttcaa tgattcactt aggtcgtagt aagagacacc cagttggggt 60
tcaacactct ccaagaacac gtcc
84

<210> 2493
<211> 201
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-D7

<400> 2493

cgactcaagc gtacgccccac gegtccgtat gtgtatatt caagaagagg ctcggggcaa 60
ttatgagaag gttggcacat gtaggtgctc taagaggtat gtagtcagct cttagggttgg 120
gtgtcatgtg tccacagttg tctaccagtg gattagcgag cgctttggaa ggtgatagcg 180
attgagttca aagaagggtt c
201

<210> 2494
<211> 231
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E1

<400> 2494

cccacgcgtc cgccccacgct tccggattgt tgaagaaaata aacaaggaga atgggttttg 60
gtaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 120

aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa 180
aaaaaaaaaaaa aaaaaaaaaaa agacagcgaa gaaaaagaaa gagaaaggca a 231

<210> 2495
<211> 120
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E11

<400> 2495

tggcttctt ggtcagtcc cgtaaaagta gcggctccc gaagacgtgg ctcattgg 60
tttggacaag gttctatatg cagtagattg gctgtctcat gtgggtcccc tatctgcgaa 120

<210> 2496
<211> 211
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E5

<400> 2496

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tttgcttgaa agaagtccaa tggaaagcggt tcgacaggag cccaacatgg ctcgtgagcg 120
tttgcagggt agcaattcac gaacggaagt cgatacggac tagcgctcca gtgcacaaca 180
acgcagtcgc agcgcctagt tctgccaccc g 211

<210> 2497
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E7

<400> 2497

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tgggcgacag tcatcaaact gttctatcag acagtgaaat gctttcctaa tcaagtggga 120
aactaccaat tacttgttca gcacgagtga ggataacttg aacaaatcct catatggaaat 180
gtgacacaac gtatctcaac taagaaacaa tgtgaaatat atccaacaac gtcactttt 240

attattgaga caaacttgat ggcggagcac aaaacaacca caaaactatt gcgtctgcat 300
tctatatcct cgcatgttcaa atagaaattc gaaggctatt tggagagtgg ccagtttaag 360
tcatctgttg aagaaaccct ttctctgtca aacccacaaa agcgataat atgttgttt 420
tt
422

<210> 2498
<211> 262
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-E9

<400> 2498

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gacaagactt ttacgttttt atcctttca atgtctgcag tggaagtcgt acaggtaaat 120
gttctaaatg atcctgggtt cttcgagac acgtttgtt ttgaaataac ttatgaagtg 180
agacaagcgt gacaacacga tagtgagtgg aaagtaattt aggtgagttg tgccagagag 240
gagagtctgg accaagtttt gg
262

<210> 2499
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-F1

<400> 2499

cccacgcgtc cggcgttcca cacgtccgag tgggtgtct tgtcgttaat agtcctctct 60
agagacttca atataaaaata acaaacagtt gtaaaaagct attcactttt ctctatgaga 120
acgagtgcgtc aagtgtcacg ggggtttgc gcgatagaac gatatacgg agcagacatg 180
ttatagctgg tctacttgga agcagttgg agtttacaag agaaacgagt tgggtctgt 240
tgtgtcggtt ttcaagttta catacgtgaa tactccaagt attgaacaat aaattggttt 300
atttacgaca aacaaaaaaaaaaa aaaaaaaaaat aaaacaaaaaaaaataaaaaaaaaat caacacgg 358

<210> 2500
<211> 377

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-F10
<400> 2500

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tgcgtctgat atgactggac atatatctga tagtattttt tatcactcag gaggagatgt 120
ctcttctgat caaaattccg tgggttctcg agaagatagt ataccggaga gttaccactc 180
aactcgtcgt cgtgattata ttgattggaa tactttgaaa aatcactttc accttccgat 240
aatatgaagct tcagccaaac tgggtgtatg tgtgacggta ttgaagaaaa tatgtcgtcg 300
tttcggaata tcgcgatggc cacaccgcaa attgaaatct gtagctagac acattgaaag 360
acaagaacga gcttttt 377

<210> 2501
<211> 411
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-F7
<400> 2501

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agtacagacc tatgaaactt atcaatgttc tcaagagaag aagaaggagt acagctatcc 180
ttgtcaaact tatgagcagg tttcaactac ttaccagtgt ggtcagtgac agtcccaaca 240
agtttactac caatgccaaa agtataagga ggttactcag caagaatgcc agtacgtcca 300
agagtcgtat tgtgtcgagt atgaagaatg tcagcaagtt acccaggaag tttctccttc 360
agaaattgtc tactacggtg aatcttcttc tagcagtagt tactactact a 411

<210> 2502
<211> 211
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-F8
<400> 2502

gacgcacgca tacgacgtta tgcagttgtc caagcttattt taagtggatg agacagatc 60
gtggtcatac actttggtca ggactttgac ccgacatgtt tggttatggg cggaaacagg 120
tacaacggca gcagaaatgtt taataatttt tgctgtcgcc tattttgtctt atatgcggg 180
agtccctgac ttccacgcga tgtaccacct g 211

<210> 2503

<211> 343

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-G1

<400> 2503

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ggcacgttaac ttttccaatg tctgtctctc gaggagggtt ctgagagggg gatgtttacg 120
aaatgtgaaa gtttcaacc acaaacgacc tgcaaggttt ttatctacga aaatgagagg 180
aggcgaccat gaaaggagag aacttagtcg tcctatgcgt acgcttgattt ccgtttcga 240
cgaactttta gctttgcgc aggatccctg gtccatgtttt cgctctccat ggagtctgtc 300
gcccagaagt atggcagtagt acacgtggat gcctcgtgtt gac 343

<210> 2504

<211> 274

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-G3

<400> 2504

cattatctgc gttgtttgggtt gatttcttcg tgggtttgcg tctcaagatgt tcattttgtt 60
aacgtataca gtcgactctg ctttccaaca gaaactcagt aactaagacg agtgaggcca 120
attccccacat acagcacgtt cgagtttacc gctgggactc tgaaaatcgg agaagaacctt 180
aaatgtggtc acgtaatcca ttccctccaa gtaatgcagt cccatcgtgt tggacgccc 240
catcaggaca tacaatgaca tcgactctac cttt 274

<210> 2505

<211> 367

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-G4
<400> 2505

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acgcgtgggt tcgcacatcg ataatccacc caacagaaca acgctggtgg taataagagg 120
agcagcagct ggagcacaag gtgatgatcc atcgcagcag cagcagcaga cttgccgg 180
gtcgaaaaat accacgacag acgacctgtg gttgtttgt aacaacaact tggtgtcatg 240
aaaattccaa gtggagtaat ggcaagttat tgcctcgta aagtttatt tccactggc 300
gcccattttt gaaacgttac aaccatagaa agttgttgc gttccctacg aaaacttgc 360
ggcccaa 367

<210> 2506
<211> 263
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-G5
<400> 2506

cggacgcgtg ggatgttaat gttgcagtat acgacagaga agagtgttaag ggttagggaa 60
atgaatatcc tggaggaga atggtaatgt atggactaat aggagtaatg ataatgtatg 120
cgttaagagg gaagggagta ctgggagttac atgtacgaac gtcattttttt gggataagta 180
gtgtataat aatggaaata atggaatga tacatgttgc aagtacgtca tacacaaaca 240
tggagtccat ggaaaggttt acc 263

<210> 2507
<211> 420
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E1-G7
<400> 2507

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ctattcaagc ttctccctcta gagggaaactt tgggtgcctt tatgcggggtt gtttatcaat 120

cgcaaagcca agcaccaaaa cctagctgtt gcaagtttag ctgtcaatat acccaaattt 180
gtgaacaagt tatccagact cagcaagtta tccagactca gcaagttatc caaactcagc 240
aggtcatcca aactcagcaa gtttaccaaa cacaacaagt gcagcaaaca caacaagttt 300
cgtcagcata cggacgcaat gaggtatcca gagggggata tgcccaacag tctgtaaccc 360
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<210> 2508

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H1

<400> 2508

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gtgaggatga gttgggttgc aactttaaaa tcttccaaaa tagaaggctc ctctgctatt 120
ccagaaggtg aacagcctga cctccataca aagtgggagc agtgtttaca agagaaaagg 180
tcaccagagt gccaacagtg tcaaggttca ggacaaaatac catgtcctgc atgtgaagga 240
aagggttatt tcgtgatgga agtttcaat gttacctcta gtaaccagtg tcaagttgc 300
cgtggacacc gtaaaaactcc ttgccccact tgtaaagaat acatttatcg ggcagtaaaa 360
gaattatgat ataaaagtaaa gctcaatctt tagaaatgga aatattgcct ccagtaac 418

<210> 2509

<211> 369

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H10

<400> 2509

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ctgttagactt gtcgtctcag ttgggcacccg cagcggaaag tgaatttgc gtcgacaatg 180
caaacgatac tgagaaccat caagtggcgc atagcaccat tgaactgaat tccaataccg 240
aagtggttca cgaccaagta gaagcgactc attcgacaag tggaggcgca gcacttcgag 300

atatttgct ggaaatgtca gatggcctca cagttccctt tgcactagca gctggaatgg 360
ctggcgct 369

<210> 2510
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H12

<400> 2510

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gataaggaga ctatcgaacg catatccaag ctgtccccgg aagaaagaaa ccaagtggaa 120
gaacgtgtga agaacgagat gttgagacaa gttttcaag agctcgttca gactatatct 180
gaaaagtgtt tcctcaagtg catcacgaag cctggaagtt ctttgacatc aggtgaacaa 240
acttgttgc caaagtgtat ggatcgctat ttagatgcaa tggaaatcgt ttccaagacg 300
ttaatagaga gaagttcacg taactctaac tagttgtgt ttgatccgag gattttgac 360
ctgttagaaa ttgcagcgtc ctgaagctag gatagtggaa caagaactag t 411

<210> 2511
<211> 290
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H4

<400> 2511

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agaagaaaga gaaaggaaaa aactgagttt caggaagaaa agagggagta gatgaggaaa 120
gaaagatcaa ggaagtaaga gtaagagaag gagtaatgtt aatgaaagca ggaaagtatt 180
tgaagaagag agtgtaaagc gcgtaccctt tgcataatgtt cccagcgagt gaaagaggaa 240
gcaaaaagaa agaaaaagaa gtagccaggt aagacccgaa gctagtttat 290

<210> 2512
<211> 336
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H7
<400> 2512

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aaaacattta gtttcatttga tggacatagg tatagagtac cagattgctt caagtgggg 180
cagaatggta acgacgatgg atcgatatga aggatattgt gcaaacgtac aaagaggctg 240
gcttgctcat gtgctatctg acacagaatc tatcaccaca ttttcaagtg cttctgtatgc 300
tattcagatc ttccgttaagg aacataatgg agttat 336

<210> 2513
<211> 346
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E1-H8
<400> 2513

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tggtttgggc tatttgttcc ctcactacga gttttgggtt tctgttgtgg tgaagacttt 120
gttttagcaac ttgtgtgcaa aaaatggtca acttggtgta tactgatgag ggacgaaacc 180
tgttaaaggc ctaccaactc attttatatg ttgctatgtt ggcttctcc gccactatcc 240
tggggcttat gggaaatccc atgttaatc tctatctaatt tgccaatgaa tatagacacc 300
cgatcccttag cgaacctttt gtacccattt acaaagtgaa gaacgt 346

<210> 2514
<211> 301
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A1
<400> 2514

agccccacgca tccgggttgc tagtaatatt ttaccgtatt tgaaacaaag attggacgg 60
atctattgtc atcaaccacc gcttgcagac attagaaatg aaaaccgaaa agatatattg 120
gccaatgtta ttatcgatga acaacaatatt cgattgttt tgaccaatac tgccaaattg 180

ttatgcattt ctgttatat ggcttctcat atttccccaa aacgagactc gaagatattt 240
acaaaagaaaat cgacgcgtgt caaaaaacat cgcaggagaa ccaactcatc cactctgaca 300
g 301

<210> 2515
<211> 338
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A10

<400> 2515

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ggaatggaat attggctctc ctgcttatac atagagataa agtgttgttt caaaaagtgc 120
ttggatattt attagtattt tgatatgtt tggagtgtat tcgggtgcata gtagttggc 180
tgaatgagtt ggcaagtcgc ttatTTTATC ccattatgag aaagaacgag actagacgtt 240
tcagtggaaat gggttattat cttgcgggag tcctgtatgc ttcctgttat tttgactcg 300
ttgtttttga tttgggttggt attcatttgg ctattgg 338

<210> 2516
<211> 333
<212> DNA
<213> Cyanidium caldarium -

<223> Clone ID: LIB190-051-Q1-E2-A11

<400> 2516

ggtcaggagt tccgggcacg actaagccga agcgctggcc caagcgtctg gtctcattgt 60
agtcgtaatt gaggaatacg cagggcgaca gtaacgaggg gaatggttat aagacagtat 120
gtgataccga gtcgtgtatc gcagctcgtc ggcgagttc aagagcgc aa ggctggatgc 180
aactttacat agaacaccgg gaagtacgac cgatacatct gacatctatt tacctgtatg 240
tgtccttcat cggtcattat gcctttattt aagggtgtcc ttggggcggca agaaaacaagg 300
ctagtcattc cagtagaaacg ttttatgacc ttg 333

<210> 2517
<211> 378

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-A2
<400> 2517

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acggtatcta ttgtcatcaa ccaccgctt cagacattag aaatgaaaac cgaaaagata 120
tattggccaa tgttattatc gatgaacaac aatatcgatt gtcttgacc aatactgcc 180
aattgttagt cattgctgct tatatggctt ctcatatttc cccaaaacga gactcgaaga 240
tatttacaaa gaaatcgacg cgtgtcaaaa aacatcgacg gagaaccaac tcattccactc 300
tgacagaagc cattcccttt cgtttagaaa gactgttggc tagttatcgc gtcattcaac 360
aacaactggg ccaatcat 378

<210> 2518
<211> 110
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-A4
<400> 2518

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ttccttcatc acttttcgta ctaactgtct ttgtttagat tttcttgtgt 110

<210> 2519
<211> 245
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-A5
<400> 2519

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gcagtatcta ttgacaacac acaccgctt cagacacata caaatgtata tatcggtgac 120
ataatggatc cggtaaatat cgaattttta ccatcagctg aatgtctctg tccactactg 180
ccaaaatgtt cggcaccgct cctcaaattt ccgccccacac caccccaccc cgttattcga 240
caatg 245

<210> 2520
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A7

<400> 2520

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atcaaaaagtt ttagattgga tgaatgctga tgaaatgtta tcgagaggct ttaatgaaca 120
tatttatgag gttttccaat ataggcctgc acactgtcaa attggcactt ttctccgcca 180
ttatgccgca agatgtacta aaaatgacgg agaagtttat gagagatcca gttgtgattt 240
tggtgcagaa agatcaacctt acactggaac gtatcaaaca atactatata ccactggata 300
tcgacgagta caagtttgat actttacgtg accctctacta aactttgact 350

<210> 2521
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-A9

<400> 2521

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ctcttatgtta aaagaatcaa aaactaaaga atatggag cttagacgatt cgttgcagca 120
gccagtggtat tcatcttgta gcaccaagtgcgtgtttatt gcaaccccac tggttggaaat 180
tgcttgtaact gatgggcagc gaattgaaat gattcctttg aagaaagata taaaggaatt 240
gttttctct actttaaaga agaactttga gtcgaacgaa gcgtcatggg agtgcagtgt 300
agttgaaacc gcagttgctgttttatcca gtattatgaa cagtgtgtgg aacagtacta 360
tcttagcaagc atagattatg agctacacctgg ttat 394

<210> 2522
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B11

<400> 2522
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ccttttccaa actacgcata gtatggatag acgatacgg agagggatgg gtatcgagtt 120
ggggatcgta ctacatggca aatgtgtgtg gagtaatgat ttatcacgat agacactgtc 180
ttcactaacg ctagaacagg agaaacgaga gaacaacagc tacactaatt actttccgg 240
tctctacact ttattcctgg tgaacgaaaa aatgcaaggg acatgaccgc agacagctac 300
ttgggttgta tccccccaga ataaacactt cctaaactcc catatgtcac caatacacgt 360
gtaaagattt tactggcatt 380

<210> 2523
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B12

<400> 2523

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agtatgaaaa gagacacgag tgtaaacactg tccaaatcctc caactcagcg aaacagcagg 120
aactgtgaaa atgcagttaa ctagcagttat gacggacaga ccccaaaaagt cttgactaga 180
taggttcacg gaggagagag aatcatgaag tacaggaggt ggggtaagac atgaacgacc 240
actgcattgag gataacgaat ctgactgagt aagggaaaccta agcttaagct agtttggctg 300
gggaagttta cctaataaaag agtaacttag gcaaggatag gcatgagaga agtataatag 360
cacacgcattg catgaagata aagagtgaga tttcagaaaa 399

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<210>      2524
<211>      368
<212>      DNA
<213>      Cyanidium caldarium

<223>      Clone ID: LIB190-051-Q1-E2-B4

<400>      2524

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gtgaacgctt tcaactttgc gctttcattc tcgtggcctt ctatgaaggc tgcatggaaa 120
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cctcaaggag gtttcggatt ctatgctggt ttcaactttc ttggcatcgt tatgcagttc 180
ttattcttac ctgaaaccaa gggcttaca ttggaacaaa tgagagtcgt gtttgaggag 240
ggtttattca ccatcgacg ttatcactgt cgtgctggtt ggagaacact tcgtaagctt 300
ttgggacttc cagttccaga cactcctctt gtttccct atgataaggc ctacgctatt 360
gaccgcgc 368

<210> 2525
<211> 312
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B7

<400> 2525

aacacaacta ttcttttattt tcgcaaacct tgcgcattca ctcgaaaaat gtgtcttcct 60
ttgcaaaaat cggcataactt ttgcgtcgat aataatgcgc aaacgaaaga ctgcggcaa 120
gagctaaaac aggggcacca acagtcagtatggacaaac ctcaagtgga tcaatccacg 180
ttggtaaaga tagacttgtc tcaaggcagc tttaaagtag tctaagactg tgacacagat 240
ttagaagtgt gattataagg ccaagttca attggaactt atgcagtacg ggctctgttc 300
acctggctgt tg 312

<210> 2526
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-B9

<400> 2526

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tggaaagaat aaacgccttt caaaaaaagg caagggagtg aagaagaggt tgacagatcc 120
gtttctttaga aaggaatggt acgacataaa ggccccagca atgtttctc aacgtcaggt 180
tggaaagact ttggttacca agacaaccgg aaccaaaatt gcttcggaat cactgaaagg 240
tcgagtatatac gatgtttgtc ttgccgacct gagtagcaac aaagacgaga gtttggcgta 300
cagaaaaatt cgtttgcgtt gtgaggaagt ggaaggaaga aactgtttga ccaactttta 360

tggaaatggac tttgccagag acaagcttg tgggctc

397

<210> 2527

<211> 161

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C10

<400> 2527

ctgtctgcag atatccaaat gtcttatcaat actatgacgt tcaacattgg cagcatccgt 60

tgcaagtgcc acgtacgcaa tccatcagag tgtaggaac tataacctcta tagtgagg 120

aatgaacag cataatctct aagacataat ctgcggaat c 161

<210> 2528

<211> 149

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C11

<400> 2528

ccttttctac actttcatag ttaatttaac actcatttct atacaacctg tacgtttgt 60

atatatgagt ggtggttcct cattgttact catagctgag tcgggatatac ttataaaatc 120

caaaaattttt cttctcggtt atcaaaaat 149

<210> 2529

<211> 172

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-C6

<400> 2529

acccacacgt caaggagagt agcttggat gcagcgatgg ataagttcta acagccgctg 60

gttttggtgc agaccgtgca tttaggataca tgccctgacta ctcagtgacg tgattccgga 120

tgacttccca actgtgctgt aattgcggct aggggtcgat cgttgaaaac gc 172

<210> 2530

<211> 373

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-C9
<400> 2530

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gtgtgtattg tctactgtaa ttctgatcat gagagctcaa cctatgatac ctcgtactgg 120
tcctccctta aacgactgga ttcaagaggt agaggaatgg attccaagat aatttccatg 180
atctgtccaa gaaaattttg acaactattat tcgaggattc actgcattgg gctgtattgt 240
atccactgac tcattcatat aagtgcacta ttattactcc ttgattctag attctgcaat 300
tttttgcaa gtaattgtaa ctatgtatga gagggcaaca gatcatttagg agatcgata 360
acttgatact att 373

<210> 2531
<211> 138
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-D1
<400> 2531

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agagagtaac acatgcaagt aggtaaagcg aacgggtgag taaagaggtg taaaagactg 120
gaagaacatg agagcagc 138

<210> 2532
<211> 94
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-D10
<400> 2532

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acagtagagt cctacttgta tacttcgaaa gttt 94

<210> 2533
<211> 154

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-D11
<400> 2533

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ttttagttt ttatccctt caatgtctgc aatggaactc tgggacctac atgttctaaa 120
taaccctggt ggcgttcgac accccctttt tttt 154

<210> 2534
<211> 317
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-D12
<400> 2534

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cacgcgtccg cccacgcgtc cgccccacgcg tccgcccacg cgtccgcttg catttggtga 120
aaagacaaaag aacttggtta ttctcagatt cggttttagta ggtatgctga tcggaactta 180
tgtttccatt atggaaatgc agaaaaatcc ggagtattga attgatatgg cattgttctc 240
ctctttctct ttttgcataa gtttacaaca aaaagcccggtttt tatacttttc 300
atgtaaattt tccttcc 317

<210> 2535
<211> 306
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-051-Q1-E2-D4
<400> 2535

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aagaagtggaa cttagaagac tacgtttcca gaccggataa aatttctggc gcagatattg 120
ctgcaatctg ccaagaagcg ggaatgcaag ctgtacggaa gaatcggtat attatacttc 180
caaaagactt tgaaaaggca tataaaatttgc tgcgtacgtaa agatgagcag gaatttgctt 240
tttacaaata agacatgatt tgcgtacgtaa agaatgaatg gatgcacaag ttgcactttg 300

caactt

306

<210> 2536
<211> 62
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E1

<400> 2536

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gt 62

<210> 2537
<211> 328
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E11

<400> 2537

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atgctaatac agttttgaa gtagacacaa gcattatagg cctgggctta aacaatatag 120
ttcctcttgg aggacgggga cgatacagac agcaatccct tgcctaattgt ggaaggacga 180
attcttgcaa acgttatcga gtattttaga tatcactcac tcttaaagac cattccgcac 240
tctgaggagg atattgagcg ctgggatacg gaattccaa atgtagatca ttttattcct 300
ttctcatttg aatctggctg caaactat 328

<210> 2538
<211> 287
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E3

<400> 2538

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gtacaatagt ttttcattt tcaaaaaata ttgcacaatc cacccatcga accacgaaaa 120
agaaagcctt tcgactctt ctttctacac ggttgcac aagaagaatt agatacatag 180

aatcatcgac aacggattgg atgctggttt agaggcgttc aaccatagtc cagcaaagg 240
agcgtagatcgat catggcctaa cggccatgta ggagagcaga gtttga 287

<210> 2539
<211> 306
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E5

<400> 2539

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attgtcagat catcaagttt caggtgcttc aagatggaaa acctcaggtg ataacttcgg 120
atgaagtatt cggaggaaag agagtagtat tgtgtgggtt acctggtgcc tttactccaa 180
cctgctctag gcagcacctt ccaggcttg gacagaatgt tcatgaaatc aaatcgaaag 240
gagtagatac agtcgcttgc tgagctgtca gcgacgcgtt tgtgttacat cagtggcag 300
agtcac 306

<210> 2540
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E8

<400> 2540

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aagttggta gctggcgac agtcatcaa ctgttctatc agacagtgaa atgctttcct 120
aatcaagtgg gaaactacca attactgtt cagcacgagt gaggataact tgaacaaatc 180
ctcatatgga atgtgacaca acgtatctca actaagaaac aatgtgaaat atatccaaca 240
acgtcacttt ttactattga gacaaacttg atggcggagc acaaaacaac cacaaaacta 300
ttgcgtctgc attctacatc ctcgcagttg agatagaaat tccaaaggcta tctggacagt 360
ggccagttga agtcatctgt taaaagaaac cgtttctctg tcaaaccac agacgccgc 419

<210> 2541
<211> 286

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-E9

<400> 2541

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tatctgggtgc agtgacaatg acgagtgtct gtgatccaga gtctcaagaa tattcatgg 120
cgggattgca acacatgata aagcggcgcc agatgttaagg tgaggatatt atcactccga 180
aaaggcaaga tgagttagtc actgaggtgt gatgagtccg aaacaaaagt tcgagagcag 240
tgttgcgaca aatacatcta cttccatcat acgctgtgtt cttttt 286

<210> 2542
<211> 62
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F12

<400> 2542

acgcgtcagc ggaagcgtgg gcggacgcgt gggaaaaaaaa caaaaatcac gatgaccgtt 60
ac 62

<210> 2543
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F6

<400> 2543

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atgcgtgcc a gttggaaaaa gaagagaaca cgacgggtga agcgcaagag aagaaagatg 120
agacagcggtt ccaagtaacg gaagaatcct cggacgtctg agttgaatag agttcctaaa 180
acgtggaaaa actctatgg caactctggc gcagtgatta tatcctgctt cggaaagggtt 240
gaagtgtttc cgaggattgt tcgcaagtta tgataaaagg ttcttggtt tttgttttc 300
aacttgtaaa tgccacttgt cagtcatttt attcgagtaa ag 342

<210> 2544
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F7

<400> 2544

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ccagtacaga cctatgaaac ttatcaatgt tctcaagaga agaagaagga gtacagctat 180
ccttgtcaaa cttatgagca gggttcaact acttaccagt gtggtcagta cgagtcccaa 240
caagtttact accaatgcca aaagtataag gaggttactc agcaagaatg ccagtacgtc 300
caagagtcgt attgtgtcga gtagtgaagaa tgcagcaag ttacccagga agtttctcct 360
tcaaaaaatttgc tctactacgg tg 382

<210> 2545
<211> 313
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F8

<400> 2545

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tttggtcaag acgttcatcc gacatgtatg ttgtatggact aaacacttta cagcgcagca 120
caaatgataa cctttttgc tgcctctat tcggtcgata tacggaaat atctgacttt 180
aactctatgt acgaatttta tgattttgt actgttatgt tcgtcattcg gaatcaacat 240
attatggtag acttgggtac cggatttaag aagttgatca actgggtat gactgacttt 300
caggatctta ttg 313

<210> 2546
<211> 81
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-F9

<400> 2546

cgaaatatga atagccagat gcgatccatc acacgtaaaa tttatggctt gcagttaat 60
gtagtgtact gaccttttc c 81

<210> 2547
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G10

<400> 2547

acgcgtcagc ggaagcgtgg gcggacgctt gggaaataa agaaactgca caaaaaaccc 60
cgtactttaa ccgtaaaat gaccaggcat tacaaagggtt accagcaaaa ctccggcagc 120
aaattgagcc atcggaggaa gtactcgccc aacaaagaaa aggctggca gaaatctac 180
aaaaacacgg tgtccagcct aatcaaagtt tgattgaaga tattgtccgt ttctttcatt 240
aatccctccg tggtagtgt ttagctgcgg ttcaactaga gtttgtttggaaacacggtt 300
ggatccagta aagaacaaaa gaacttcttt gt 332

<210> 2548
<211> 250
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G12

<400> 2548

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tggtttgtgc ttaattgtcc ttgtatctca aattttatgg tttctcaact agacaactgt 120
tataaatggg gggccgcgc cccaagggttc tcagcttacg tactcattgt atgcaacgtc 180
atagcttcac aattgtgtgt caccttatcg tcacaagggtt tttatgagcc gatcagttt 240
aaaatctcat 250

<210> 2549
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G2

<400> 2549

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atgttacga aatgtgaaag tttcaacca gaaacgacct gcaagggtgt tatctacgaa 180
aatgagagga ggcgaccatg aaaggagaga acttagtcgt cctatgcgt cgcttgattc 240
cgcttcgac gaacttttag ctttgcgca ggatccctgg tccatgttgc gctctccatg 300
gagtctgtct cccagaagta tggcagtaga cacgtggatg cctcgtgttgc acttgggtgaa 360
gaaggaagat ggctttatg catacgtgga actaccagga c 401

<210> 2550
<211> 323
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G3

<400> 2550

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tccttttga aacgtataca gtcgactctg ctttccaaca gagactcagt aacaaagaca 120
gagtaaggcc aattacgaca tatagcacgt tcgagtttac cgctgggacc ctgaaaaggg 180
agaagaacctt gaattggta cctactcgat tcctctcaa gaatgcggtc ctatgggttt 240
ggatgcctta ttcaaaatat agaatgaact ggagattact tttgtatgtt gaacgtcctg 300
ccgagacgga atttgtggaa gtt 323

<210> 2551
<211> 101
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-G6

<400> 2551

accccacacgt cagcggacgc gtgggatgtt actgttgcat tatacgagag agaacagtgt 60
aagggtatacg gaagtcaagta tactggaaacg agaatggta t 101

<210> 2552
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H1

<400> 2552

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ctcgtattgt gtgaggatga gttgggttgc aactttaaaa tcttccaaaa tagaaggctc 120
ctctgctatt ccagaaggtg aacagcctga cctccataaca aagtgggagc agtgtttaca 180
agagaaaaggg tcaccagagt gccaacagtg tcaaggttca ggacaaatac catgtcctgc 240
atgtgaagga aagggttatt tcgtgtatgga agttttcaat gttacctcta gtaaccagtg 300
tcaagttgc cgtggacacc gtaaaaactcc ttgcccact tgtaaagaat acatttatcg 360
ggcagtaaaa gatttatgat ataaagtata gctcaatctt taaaaatgga aat 413

<210> 2553
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H10

<400> 2553

catcaggtcc aaatgtcgcg ctcttcggta caaggtaaaa aggaagaggg agttgccaat 60
gggacaaggg ttgttacagc ctttggggac ggactttgc ctcaaagtca ctctgttagac 120
ttgtcgcttc agttggcac cgcagcggaa agtgaatttg tcgtcgacaa tgcacacgat 180
actgagaacc atcaagtggg cgatagcacc attgaactga attccaatac cgaagtggtt 240
cacgaccaag tagaagcgac tcattcgaca ggtggaggcg cagcacttcg agataatgtg 300
ctggaatgt cgatggcct cacagttcct tttgcactag cagctggaat ggctgggcc 360
tttcaagtt ccaaggatat tgtattggca gtattggcag 400

<210> 2554
<211> 187
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H11

<400> 2554

ttatttggaat gctccactta ctgcagatgt ggttatcatcc gataatttggaa gtcgtcccta 60
gtctcgtag cttggcagca tattctgtca aatggtctcg tgcattcaca ttctggccga 120
gtgtgagtag aacagacat gcttactgtg ataagatctt ggtttgtacc tggtccccta 180
tggaaag 187

<210> 2555

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H12

<400> 2555

agcccacgctg tccgcgaaat ggtcactcac gcaaggcaaa cctaagacgg ccccccggacg 60
aaagaaaaccc aaggggaaaaa ccgtgtgaaa aacaaaatgt tacaacaggt ttttcaagag 120
ctcgtacaca caataccgag aaaggtgttc ccacatgtgc atcacaaacc cccgaaattt 180
ctttgacatc aggtgaacaa acgtgttttg caaagtgttag ggatcgctat ttagatgcaa 240
gggaactcgt tccaaagact ttaatagaga gaatttcacg taactcaaacc aattgtgtgt 300
gagatccgag gatTTTG 318

<210> 2556

<211> 367

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H2

<400> 2556

attgaaaatc atggtagaca ccaagcttaa tgacggtgct agtgctgctc tttggacttg 60
ccgcctagtt ctctatacaa ttgtgttagc attttcagca acaataattt gacctgatgg 120
aacgaaagca gataacatat ggaacgtatgc cctatattat catggaaaag tggtaactt 180
ttgtgcataat tcagcgtcat cagttttga aagtggcgac catggcgcat gtcaacatgt 240
gatggcattt gcttctatca acttgattta agtgttctat cgttggttgg acacctttgt 300
cgacgcattt tatccaattt ttacagagtt ctggttgtg gagcttgta tcatgatatt 360

ccttact

367

<210> 2557
<211> 210
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H6

<400> 2557

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ataatacAAC gagtaatgtg aattggatca cgaaagtatt tgaagaacac agtgtaaAGC 120
gcgtAACTTT tgcatgatgt cccagCCAGT gaaAGACGAA gCAAAGAGAG agaaaaACAA 180
gtAGCCAGGT aAGACCCGAA GCTAAGTGT 210

<210> 2558
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-051-Q1-E2-H8

<400> 2558

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CGGGCGCTGG TGGTTGGTTT GGGCTATTGT GTCCCTCACT ACGAAGTTG GTTTCTGTT 120
gtggTGAAGA CTTCGTTAG CAACTTGTGT GCAAAAAATG GTCAACTTGT TGTATACTGA 180
tgagggacga AACCTGTAA AGGGCTACCA ACTCATTTA TATGTTGCTA TGTTGGCTT 240
CTCCGCCACT ATTTGGGGC TTATGGGAA TCCCATGTTT AATCTCTATC TAATTGCCAA 300
atgaatatag ACATCCGGAT CCTANCAGAA CCTTTGTAC CCATTGACAA AGTTGAAGAA 360
CGTCACTTT CAACAAGTCC TCTCTCCTTC TGTGCCTGGG GTGTCACAGG AGATCGTACG 420
CGTGGCATGC AAT 433

<210> 2559
<211> 84
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-051-Q1-E2-H9

<400> 2559

acgcgtcaga aaaaaaaaaaa aaattcaaaa aagaaaaaga aaaaaggaaa cagaagcagg 60
acgctcaagg acgatggcac aaaa 84

<210> 2560

<211> 373

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A10

<400> 2560

cccacgcgtc cgccccacgac tccgatcgac ttccacgcgg aagtaatatg atcgatcgaa 60
cagcattgcg caatgttgg aatgcagtatg taacaaccgc ggatgatatt ggacatcgct 120
tggtcgtaga gatccaacta aaggaatcca gcaaataataa tagtcacatg aaggaaggag 180
aacgaccaaa tgccgttaca gatatcattt ctacggaccc taaaatggat aggaaagtat 240
ctcagtggtt gtcggaaagga caaaaggcat tcttagtata agatgagttt acgggtgaac 300
gtcgaggaat attcttaagc tcaaccaaat taaaatgtca gaaacaagcc agtcaggaac 360
gaaatagcaa tca 373

<210> 2561

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A12

<400> 2561

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tactgtaaa ggtcaagtat gggcagagtc tcctgtatgaa gaaaccaagc agtgtttgca 120
atctttacgt tccaaagtac aatcgatgga cttgactcca aaagagttgg aatggtgtga 180
cgacgcttgc ctcttgagat atttgcgcgc tagaaataat catgtggaca aggctttgga 240
gttgataaga agaacgttac agtggcgaaa ggaatttgg aatggaaa tggatgttgc 300
cgtacctgct ccagtgaagg aagaagggtgc tagtcaaaag ctgtatgtgg gaagaaagga 360

caaatatggc cgtcctatca tttacatgaa ac

392

<210> 2562

<211> 389

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A3

<400> 2562

ggcacgcgta agatgcaggc ggcccttgat gggatattat gcttggcaa ataccaaaga 60
gcctttattc gaaagtccaa caaagcaatt tgacttgtcc tcactacgaa agactttctt 120
ttgtatttgtt ccgggtgggt taagaagcgg cttagggggga ggtttggag ttggctgtgg 180
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cggtgttatt cctacgcagt tcttgatgg tttgcctttt ggacattacg tttctgggtt 300
tttgcagaac ttagctcgaa aatttcctgg aagttcaaca ggtattggct gtgggtttgg 360
tttgggctat ggcgttggaa ttggctcac 389

<210> 2563

<211> 395

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A4

<400> 2563

agaagcatcc aaagcagttc ttacaagact tgaatcttat ctgtaaaaat gctttcatt 60
ataatgagaa gaagtccgaa gtttatgagc ttgcacagga gttaaaaaaa cgagtcgaga 120
acttgcgttgc ggcagggttggt ggagagtggc ctgctattga acaagcaatg actgaggata 180
gtgaaaaaggtaaattatggg ggcgggcgtt cagaaacacg ggaaagtgaa gttatccccg 240
caccacgtcg taggactaga aagaagacca acactagtaa ccgcgattcg aaatcgtcgg 300
acaacgtgaa ttcaagtaaac gttgaagttc acgagagcaa gtcaccaaat gctgaagatg 360
ccaagggtgtt caatatgtcg acaactgaaa atgat 395

<210> 2564

<211> 199

<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-A5
<400> 2564

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gaagagaaaa atttgttagtc ttgcgaggca gcattcctcc aacaagggtg gaataagagg 120
caacatgtgg gacagaccac aggagatact gcctgatgat aaaccaatat tttatggaaa 180
aaaaagaaaa agaggggggg 199

<210> 2565
<211> 408
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-A6
<400> 2565

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tcagagctac aacatggca tgacgatggaa aagttacttg gtgatgacta ttagttgaag 120
cgtgcgcgac tttttagagg cttctctgtt tctagtctta tgcaaaaagt tcatttcattta 180
ctttcttgcgtt cggaaagcgt gctttcctt gtgtcggtcc ttgtccaaat tggatataa 240
gacagccatt ttatcttcag gtcctcattt ctgggtgaa catgtgaaac gcacttttagg 300
aatggtaagt tattttgtc tcgagcattt gactttatggatggatggc atatggaaat 360
acattcgaaa ccgatgcgat gggcaatttc actggggaaa taagtcag 408

<210> 2566
<211> 423
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-A7
<400> 2566

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ccaaattaag gtgagagaat ggacgataac gaactaggca aaaggagatg gtatcggcg 120
tagaacatgaaagaggcg gcaggggagt gtttagcaaa aacacagcac tctgcagaaa 180

agagaaaatg tagagtgggg gagtgtgcgg cctgccaagg agtagagaag aaatcgatga 240
aagtgaaagc gagtaaaaga tgaggtata tag agaatggcgg tcctaacagt aaggatccaa 300
aggttagcgaa gttaatagac gtttggaaagg cgtccagttt gaaaggagaa acgagtgtag 360
caactgtctag tcgtccaact cagcgaaaca gcaataactg tgaaaatgca gttaacttagc 420
agt 423

<210> 2567
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-A8

<400> 2567

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actccgttta cagggccacc ttctacactt cacactggta cagtaaagct ggataatgag 120
gaaatagagc gttattttatc tcaactgata acagagtctt gcaagccccct tgcggaaagag 180
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cctgttagtt gtccagtaac tgggtgggt gatattcatg gacagttca cgacttggta 300
gaactcttta aaatagggtgg caactgtccg gaaaccaact atctttctt gggggactat 360
gtagatagag gatattactc tgtggaaagca gtaactgccc ttgtttgttt gaaaa 415

<210> 2568
<211> 346
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B10

<400> 2568

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tggcaagctt tgcctcatt ctaagtataa tctgtgccat tcatgcagta acagccgatg 120
aaataacaag ttgcagaga ggataccaaa cagttgcacc aactcagacg cagcaatgtc 180
aaaagatttg tgcaccgc acacaaactc aagttcaaag ttgtatttat actcagacac 240
aggctccgtt caggtcccaa tgtgtcaaag cattgccaac tacctgctat aaatacttaa 300

caaaatataa gcaggtgtgc tgtgagcagg aatacgagca acagaa

346

<210> 2569

<211> 254

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B11

<400> 2569

cccacgcgtc cgatctagtc aaaacaacaa cagatggcag caaaaaactc gattacttcg 60

gaagttgttag attcctctcc tagtcctatc gttgcaatag caatcgtcaa ctccctcgaat 120

cggcctcttt tcactcgaac atatgaacat cctgacttgg tgctgcctag cgctagaaca 180

ggagaaaacga gagaacaaca gctacactat ttactttcc ggtctctaga ctttattcct 240

ggtgaaggaa aaag

254

<210> 2570

<211> 396

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-052-Q1-E1-B12

<400> 2570

cccacgcgtc cgaaatattt ttgcaaggcc agggcagcac agatatcaag ttggaagccc 60

gaaacagtta ttgtcgccgc gtttttgtt tttactacaa acattataat ggaattgggg 120

caagaaaact ctagagttcc taccctcccc ccacaactgc acctaatttt tgagcgaccc 180

ggagctctca atactggtgg tagagcagcg atggctgcac tggctctgt tttgtctgga 240

aaaaaccttg tgataacaacc caactggatg gacaacgagg ggtgtaacaa atattgtatg 300

gataaacggg attatatggg atgctgtagt ttggtaacaa tacctgaaga gtggccgttg 360

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396

<210> 2571

<211> 345

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B2

<400> 2571

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gggtgcggca ttctcagtga gcgaggggatt taccagacaa gtacgagcat ttacgaaaac 180
tggagtattt ggattgttag gaggagttag cctcatttc tgggtatcc ttatcatttt 240
aatgcctgag acaaatggaa gaacgctaga agatattcga aatatattcg atgaacgttt 300
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<210> 2572

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LTB190-052-Q1-E1-B3

<400> 2572

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tgttgaatgc aacagcattt caaatatgga acttgaggta aagaatgttc ctgcattttg 120
cagaacagct ggcgattcag ttgagaaggc tgacttgtcc aatgcttggaa aactattcta 180
tgagcattat ttgtcaggag acgcgattta ttgcataa gggaaaaact cttatgggcc 240
tggggttctt attcgatat ctgatgtcat gcagagttct tcgattactt gtgagggaga 300
accatcctcg gaacaaatat caaacccttt acagaaacaa aagacctact tgataggtat 360
ttcattgaaa tgtttgatg attcatgttg cactgtaagc catgatataa tt 412

<210> 2573

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-01-E1_B4

<400> 2573

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tgttgtataa gctttctact agtgtggtaa ctattgcata catggaacgt ctccttqtgt 120
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tgcaacgtat tcgatactgg ttgttggttg ccagttgtat gatgggtgtg gctttggtat 180
ttatgttcat gtttcgacgt tcgtgttggg agcgtgatga gttgtattac aaggccaaat 240
ctgtttaaag tcaatgttgc tatttgtatt tgaaaatctt tttttttttt tgaaatatgc 300
tggtaactagg ttgttggttgt tgtatcgagt gacatgtatt tcgtcttgg acaacacaag 360
acatgtgtnt ttgagtagta taatanatat gcaagacggg tcgagacaca cacat 415

<210> 2574

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B6

<400> 2574

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aaggaaagga gagaaagagg aaaggatcg aatgcagaga tctcgagaga aaggcaggaa 120
agaaaagaaa gtaagagaga gggatgaggc gagaaagcat aggaagtgaa acggattagg 180
aacccgtgta agcggaggcg ggaggagaaa gaatgaggag gaaaaaacgg agtcattcca 240
ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacggaaatc gaaaaaaggg 300
gtggatcacg taaattaatc cgatataaac cgagaacctt acctctccaa gaaagtgttg 360
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaagc caagtga 417

<210> 2575

<211> 407

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-052-Q1-E1-B7

<400> 2575

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gagagaagaa accatgacta cgcatgttgc aagaggagaa gaaggcggtt cacagcagga 120
agaagaaaat attccggagg acggcgaga cttggccacc tatgttcaaa acttgttgc 180
tcagatgcag atgggtggtg gaggcgatgg cagacgcgag gtaggcaga attgacgaga 240
tggtagtcg tatacacgaa ctggagaaga gcatcgatga gttgatggaa cagactggag 300

taaaggaaagg cgatggaaaca gagtctggtg aggttactac gacaagtcgt ggggagtgaa 360
tgcttcggtt gtagtacgtt ggatatcntc cagagtagct cgtacta 407

<210> 2576
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-B8

<400> 2576

cccacgcgtc cggccacgca tccgcccacg cgtccggag gtgattcca ccaagtcaca 60
aagaatcgta aaagagaaaa tgacgatagg tttgtacat ccacttgaa ctagtgttca 120
atgtAACAAA cactacaaga ctgctacttg ttcttcccag ttttattcca agtcttcattc 180
gtttctaggg agaaaccagg cgggttgcaa gtcgtggct cttgcctatg gaagcaaggt 240
ggatcagaac aagtacactt acagtcattcc tagttccgtaa aacaaggaa gaggaccaac 300
tatggttgct tcgaaaacag agttggaaca acaagtaaga tccagactag tcaagttgtt 360
tgagcagaca cttgcattgc ccatcatggt gagacttgct tggcacgacg ctggAAC 417

<210> 2577
<211> 366
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C1

<400> 2577

cggctcgagc cacgcgttagg cggacgcgtg ggttggaggag gaagaactgt ggaacttgac 60
gttgtctggc agccactg ttgttgcga gacactcgac gctccaatag atacggcaaa 120
gattttgtgg cagggtgagg cagttactcc ttgcctgc gggcggcgc ggtagaactg 180
gtttggaggc tcttaaaagt aagcggacta ttgagagggg gtgagaggag tgacgttgaa 240
ggaggggttc caatagaaca gggattctgg gcagattgga gagaaatgg agtgaatcta 300
ctgagaacga taccagggtc tggcttcaag ttgttcatct acgaatactt taaagattaa 360
ttcttc 366

<210> 2578
<211> 179
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C12

<400> 2578

cggacgcgtg ggcgtattcg cgcaatgaga ggcaacgtga ctatgaagac agacccttt 60
tgaagtttgtt gaaaccactt cgtgaccgtc ctatcagttt tattttccca aatgatgaaa 120
atagcaggat tcctcattag ttggatagta caataaatag ttgttgagct ttatgttgg 179

<210> 2579
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-C4

<400> 2579

agataatggc agtaggcaa tgtttgctta ttttcataatg tctttcagct ctgttaggtt 60
caactttggc tgcttctggc gcaacgtcta ttttagtcgtt gcttcagact aaaagagacg 120
agacttttac agtccaaagc agagagctgg ctaatctaac agacgtatac aacagcagtg 180
tattggactt taccttccgt gcgtgcaatg acactgcttg ggaagaatcc agagccaatg 240
tcactggtgc acttagtgca gcaaaacaaa acgtaacagg agcaatagcg tttctagaac 300
gcttgatagc agcaaggaca gtgaataaaa cggtggagtt tagtaagctc tctagtggta 360
cgaaggaggt tgtttcgctg gcaggtttac cgcttaattt cacganaaat tctac 415

<210> 2580
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-C6

<400> 2580

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aatagagcac tatcacaacc aggagatgta tttctgtgct tttgcaacat ccagttgttg 120

gtgaatgcag aaagagcgag tatgaggaaa tattacttgt ccagaaagta tcgaatttgt 180
tcgtctatta gctggacata gagcggttt gttcgatgaa gatttggatg actttcgttt 240
ggaagctatc ttgggagcac tattgtgtac ttgttattgt gagtggaaagc gttttgaagg 300
agaattgggg gtacaagaat ggaatgaatt ggagaagata tcttccttag atacttgaa 360
gcttgcgtt ggtacaagac anagagtgga taatatgtta cagcgagtac acaa 414

<210> 2581

<211> 415

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C8

<400> 2581

accctttgt ct当地cggtt tag agagtgacaa ggggttgcgc taccaagacg gcatgtctat 60
gctgctcgggc gacacaaaac gagaataacg agggcaaaag acggaatgcc attcgataga 120
gagtaaacat gcgtgacact gggaatgcaa caaccgctgg ttcgtctttt gcatagccag 180
ccggcgtgt cgttgcgtcg ggcgagttag ctccgggtta gcaaggctac caaggcctct 240
tgcaatcggtt caggctttat gtcgattgtat agttcaagtg tattttggaa aaagagtaat 300
acaaggacga ct当地ggcttgc atcttcgtt ttcccttctt ggttgcgtt gctgttaagtg 360
ctcaggaaaaa cctacagtga aaccgaaaca atcgagcgag gttttgcstat gacag 415

<210> 2582

<211> 339

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-C9

<400> 2582

cccacgcgtc cgtcttttc ttgttggctt ggtccgactt gcaaagagga tgatgaaacg 60
agacaagatc aagtcttgggt atcttccca gtcttatcca gtggcggtagc aaaatagaat 120
caccgaatgt ct当地gtttat tacaaaatca acccaacaat attccttgct atatccaaca 180
atatgaaata cccgaagttg ctggttgcg tgcttgata tgaaactgtt gcattgaaaa 240
attcttgcg gtcgattcta ctacctctt gcacgttgct tgttcatcgt attggaaatc 300

gatcgacaaa tatcagcaac atccaaccga cgacccact

339

<210> 2583
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D10

<400> 2583

ccccacgcgtc cgagtctgct ctggttcgag ttttggagg aaggaacggtt gcaagtcaaa 60
gcaacccatt ctcgatatgc tcttggaaaa ttccggcaggt ctgcataaaa atgtttccg 120
tgactttct atgtggaaaa gaaaagaag gacattataat ctcaaagatg atctaccagt 180
gatggattac aaattcatct tgatgagttt ggggtcaacg atccatatga aatgaagtct 240
caattatgga aatgacttgc caggttaatt tcttagcatt catttggctt ccttatactg 300
gaaaactccg atggaaagtt tgtggataaa ttccagtaaaa agtataaacag cagaataactc 360
taatggaaaa catttgcga aatttgcgtt ttgtggaaaa ataactggaa gtttcaaagg 420
aaccgctgca 430

<210> 2584
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D11

<400> 2584

cacatttggc gggattccga gagagtgcattt gttgttataa caaacgttttgcacaa 60
gacttttacg tttttatcct tttcaatgtc tgcatgtggaa gtcttacaag taaatgttct 120
aaataaccct ggtttcttgc gagaccggtt ttgtttgaa ataacttataatg aagtggagaga 180
agcgttacaa caagatatttggaaatgttgcatttgcacaa 240
tttggaccaa gttttggatg aagtacttct tccagcagat acgggtgggtc gttttcagtt 300
tactttggag gtctcagcac ccaatccaga caaaataacctt agtgcatttgcactt tattgggtat 360
tacggcagta ttgatcactt gttcctacaa agatcaagaa ttca 404

<210> 2585
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D12

<400> 2585

cccacgcgtc cgaagtttct tggcttaggc agtctcgat ctgagcgtcg ccatgacaat 60
gaaaatacac ttttggcgac agaattcacc tttcagtatt ctcagagcag gcaaaaacacc 120
cttttagta caatatccat gctgcagagt tcgaatgtaa taagaaaaat cgctcatttt 180
ggcgccgtat cgaggcttgc catacgatt tcctcatcgc tggaatggaa catttcgagt 240
tattttacta tggtgagaag aaggtcgatct cagtggcgac atttgcgttc aaaataattt 300
tttgcgagaa aggaaaataa cgtgagagta taagtacggc caagaagagg catttcaaat 360
gaaaactaag atgaaataat acgtttacta gttcgagtt ctgtcaggaa aaaatg 416

<210> 2586
<211> 523
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D5

<400> 2586

gggggggggg gggggggggg gcgggggggg gggggggagg gggggggggg gtcgaagtct 60
ggcgccggga tgggtaggac ttccggcgcc gacccacgat tacgaagtgg gaataatgc 120
atggatgagt ataggatcat tgggagtata tggagtaata ataggaggat ggggaagcag 180
ttcgcagtac agcataatgg gaggttgagg aggtggagcg gagatggat cgtatgaggg 240
aggggggtgga gagatctcta gagaaaggca agaaagaaaa gaaaggaaga cacgcggggg 300
ggcgccggag aaatcatatg ggagtgaaac ggattacgaa cccgtgttgt cgagggcagta 360
gaagaaagaa ttagtaagaa aaaaggagt cattccacca ggggagtaaa ggcgcaagaa 420
agaaaacccaa agcaattgac gggaatcgga aaaacgggtg gatcacgtaa attaatccga 480
tttacaccga gaaccttacc tctccaagaa ggtgtgcac ggc 523

<210> 2587
<211> 416

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D6

<400> 2587

gtactcctcg aaagctatat aagttagcgta tgcaggaaag aataaggtaa aggaagagaa 60
ggaagaagca gagagggact atgagcgaga aggtggatag tcgagaggga aaaagcgcag 120
aagccaaat aaggtatcga ggtgaggaaa gaaggaaaag gagaagaaga gagggttaggc 180
ttagaagcag cacgcgagag aggagggcgt taaagcatgg gaggaaagaa atccgaaaaa 240
gaagagaaaag agttaagaaa gaggaccgaa tcaggtaag aggttagagga gcaagaagag 300
aagagagaat gctgggtgga gtagcgaaac aagagaaggg aagtaaaagg taagaaagag 360
gaaaggttta cgagagaagg aagttagaaag aagagagtgt aaggcggcgt cataat 416

<210> 2588
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-D8

<400> 2588

aacaaacttg tggaggcaga tgccatcata tttggatttc ctacacgctt tggtatgtg 60
tgtgctcaa tgaaggctat gtttgactct cttggacatt tgtggcaaag cggtcagctg 120
gttggaaac ttgcgggtat cttgtatcc accggtaactc aaggaggtgg acaagaaacg 180
actgcttaa ctgccagtag gcagttggca cacttggaa ggatttcgt tccgacaggt 240
tggatatata tggaaataac tttcatgtt ttgtgaatat tggataggat attcttatgg 300
cagtgatatg tttggttaa aggagcctca gggaggtct gcttatggc caggtacctt 360
tgcangtgca gatggaaagtc gacaaccttc cgaatacggg ttggcttagag caaaacatca 420
a 421

<210> 2589
<211> 362
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-D9

<400> 2589

gggaaaccaa agacatttgg gttgcaaatg ttggagaaaa accacaaagc gtttactca 60
ttgaaaagtt tgcgttta atggaaaagg aaaaggaaga acgggagaaa tggcgatgg 120
aagcatggaa aacgcaatta attgtcgatg ctatttatca atccgaaaa accaagcaag 180
tagttgtcat gaaatattag ttttcttgc agtatttcta aagattcca tgttgtatc 240
gtatatgatt actgagatgt aaacgaggag gaagtcagtg tttgttgaag aaagctttgg 300
ctatacaact gggAACGATG acttgcAA taaatgtcac acaaatgtga cgttttgtA 360
cg 362

<210> 2590

<211> 380

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E11

<400> 2590

cccacgcgtc cggcgttagt ggtaaatgaa caccgagagc aaaactgtca aacttgtgag 60
tagtgataat gaagttttg aagtagacac aagcattgtt tccctttctg aaacaataaa 120
aaacgtcttg gaagacacgg aggatacaga gacattccc ttgcctaattt tggaaggacg 180
aattcttgca aaggttatcg agtattttag atatcactca ctcttaaaga ccattccgca 240
gtctgaggag gatattgagc gctggatag ggaattccta aatgttagatc aaccaaccct 300
ttttcatttgc attctggctg caaactatggatatcaag agcttgttgg atttaacttg 360
taaacgagta gcagatatga 380

<210> 2591

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E12

<400> 2591

cccacgcgtc cggcgttagt ggtaaatgaa caccgagagc aaaactgtca aacttgtgag 60

cattacttgg aaaggatggc agatgttggt tttgatatta tttctgtgga ttggacggtg 120
gatattggca aggcgagaga acgcatgggt ttttcttctg gtattcaagg caattttagat 180
cccgctatTT tgtagggac acctcaactc attgaagagc gcacgcgtga gattattcat 240
aaagctggac ctcgtggtca tattatgaat ttgggacacg gcgtattacc caacacacca 300
gaagaaaatg tagccaaatt ctttcaaAcG gtgcaacaat ttcgttggca agaataaaatt 360
tactcttata gctgccg
377

<210> 2592
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E2

<400> 2592

cccacgcgtc cgttgttttt cgtaaaaagtt ttcattcagc atggctccta aaggtgctaa 60
aagtgtaccc gttgcaggtta aaaagccggt ggcaaaaagtt gaaaggaaga cgtcgagaag 120
aagagatcgg agacgtattc cagggagaga tacaaggttc tgaagcaagt tcattcgtac 180
accggaatat ccgcaaagggt tatgagcggc atgaattcct tggggagtga tattttttag 240
agaattgcgt cagaagctag caaattagct gcttattcga aaagcaagac gcttacttcg 300
agagaggtac aaactgccgt tcgtctttt ttaccaggag aacttgcaaa acacgctgta 360
tcggaaagta caaaaggcgt aacaaaatac acttcttctt aacggtacaa caagtgctca 420
aa
422

<210> 2593
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E3

<400> 2593

ccatTTTcct ctgtcgtgga taggcgatga ctgggttaag attgttgctt acgaggcaac 60
tggcaggaa atgtggaaat ataacactag ttggtagtct tccatccatt cgatcggtct 120
ctagtgttct tccttcatgt gactagtcct tcgcaagtaa cattcaaagg agatccttct 180

cggtttcc ttccggaggaa agggcaaata aacaaggggg agaagctaat gttacacaag 240
atacttccaa aagtacttct ccaactgttt tgcaaggatac ttatggcttt gaattaagaa 300
caggccgagc ggacaggatg ctttcgtt ttgagcaagc cacggaaatg gaacgagcag 360
aatttggaaaga tcccgatatac tatcgtaatc ctgaaaagtt tgtcaacagc a 411

<210> 2594
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F5

<400> 2594

cacacattca tgttgcctt tcagtagc ttatgttcca gttctattta tctaaggaga 60
gttgcatttga agagtatcaa ttatcatggt taccctcgag tgtgcgtgcc taaggagtag 120
ggtaatcttt ccaagggggt aggtcaagtg ctgcccata tagcagtgc aaggaaggtg 180
tcaagaatat cgggggggatc gagcaacgaa aaaggtggcg aaatataatca ctcagttgaa 240
aaaaatgtaa agaaggagc agaaaaagta tcagaaaagg ttgatgaatt caaagacgct 300
gtgcaggata gaatggaaaa tgcagatact tccaaagcaa aagacgtgc aagagatgtt 360
gtagataagg tcaaagatgc tggacaatcc gtaaaggacg gtgtctctga tgc 413

<210> 2595
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-01-E1-E6

<400> 2595

aagagggtgta tcatgcaggc aaagaagtga cgcagtagat cagagagtaa cacatgcaag 60
tagttaaagc gaacgggtga gttaaagaggt gggaaagagt ggaagagcat gaaagcacag 120
gagaatgtaa gaaatggtga gagtgaaaac cataaaggaa gtaaaagcgg gaatctgaga 180
ggagggaaagc cacattggga cggaggaaaa ggtccaaacg ggagaagtca gcagtgggga 240
aaattggcata tgcacaggc aagtatgacc cagtaatgag gagtggagta aacagaaaag 300
gaagtaaaaag gagggaatga acggaaggta tggcaaaaac acgtgccagc agcagcggta 360

aaacgtgtgt agcaggcgta gagcagaaga actgggtgta aaggtcgagt

410

<210> 2596

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E8

<400> 2596

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ggtaagact ttgttagca acttgtgtgt gaaaaatggt caacttggtg gagacggatg 120

agggacgaaa cctgttggcg ggccggcaac tcattttata tggtgctatg ttggcttct 180

ccgccactat tgggggggg aggggaatc ccatgggggg gctctatcta attgccaatg 240

aatatagaca cccggatcct agcgaacctt ttgtacccat tgacaaagtg aagaacgtca 300

ctttctacaa gtctcttcc ttctgtgcct ggggtgtcac aggagatcgt acgcgtggca 360

tgcattccac ttgccgatgg gtca
384

<210> 2597

<211> 379

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-E9

<400> 2597

gcaagttcc agatacaaag aagaaaattc tatgtccga gaagccttgg atcgtttcg 60

ttcgagcagg agtttatgtg gtgcggagac aaggacgagt gtatgttac cagagtctga 120

agaagattca tcgtcaaaag tgcaagagag gagaagcgg cggcggagga aaggggagga 180

tattagcagt ccgaagaggc aagagagtga gtcacggcgg agtgaggagt ccgaaagaga 240

ggaacgagag caatgtaacg aagaagaaaa ttatttctat cacaaacttgcattcttta 300

tttgaagtct aatcgccaga ataatgtgac aacaaatcct gcagagtttgcattcttgc 360

caaagatatg acagagcct
379

<210> 2598

<211> 388

<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-F10
<400> 2598

cggtggattt ccaggcttcg atggagagtc acccataacg ttttacgata tttgttgtag 60
aatccgagag acgatagatt tgctttcc tcggatcaa gtgcaggta tagcagagcc 120
tggcggttat ttgtttcat ccgccttac ttggctacg aggattattg cccgtcggtt 180
tcgaacccaa tcacaggaag gagacggcag ttgtctgaag gcaggcttt gtttgcaga 240
agatatttct cggtcgagtc ttgttgctga ttactatgtt gatgtatgggt tttatggttc 300
gtttcgagat gtgatatctt tgggtgttgtt attctatccc aaaacgttta gcagctctga 360
cgacactgct attgactatg cacgtttt 388

<210> 2599
<211> 401
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-F11
<400> 2599

cccacgcgtc cggaacaagt tttgagcaaa aatcaaaatt tcactgtatg ctaattat 60
taagtaccaa gttacatac aatgttgctg cggagttgaa tcaaacaagt cggtgctaca 120
ctcctggaaa caagctccct caaggcattt atgttccgga aagatgtgaa ttggtcattc 180
tttgtgaaga agatgtgaa aactttattt gcaaaagtat attgtcaggt ttaagagagg 240
cctttacgtt gacagataat ccaagttga agttatttga gaatccgcgtc ctgaaagaca 300
tgggtgtgtc tttggaccaa atgagttctga aaagggtgtc gtgagttgga atttatttgc 360
agttgttattt ggatagttt atgatatttata tataaagaat c 401

<210> 2600
<211> 357
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-F12
<400> 2600

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ggaaaggat gaaatgcaga gatctctaga gaaaggcaag aaagaaaaga aaggaagaca 120
cagtaaatga ggcgagaaaag cataggaagt gaaacggatt aggaacccgt gtagtctatg 180
cagtaaaaaga aagaatgagt aagaaaaaaag ggagtcattc caccagggga gtaaaggcgc 240
aagaaagaaa cccaaagcaa ttgacggaa tcggaaaaag gggtgatca cgtaaattaa 300
tccgatgtaa accgagaacc ttacctctcc aagaaggtgt tgcacggctg tcgaaag 357

<210> 2601

<211> 350

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F2

<400> 2601

agccccacgcg tccgcatttt tctttggag aaaacgacgt cgtcgactca ggggaccgaa 60
gaagacttcg aaagtagcac ctccctcgtc agctctggtg aaaaaagaaa aaaagggaga 120
ggggggaggg gggaaaaacc ctctttctg gggggaggg aagaactttg gtattggtgg 180
agatgtacaa ccaaagagag atgtgactgc gggggcgggg gttatcgca gggggtgcgt 240
cttcaaagac aacgaaaggt tctcatgtcg agactcaagg tgccacctgc gatccaccag 300
tttacgcata ccttggataa aaacgtttcc aaacagctat tccgcttgg 350

<210> 2602

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F4

<400> 2602

gattactagt tctgcatttg agccttcgaa tatgtatggcc aaatgcgatc caagacacgg 60
aaaatatatg gcttgctgtt taatgtaccc tggtgacgtc gttcccaagg acgtgaacgc 120
agctgtggct tccatcaaga cgaagcgtgc gattcaattt gtagactggc gtccaaacagg 180
attcaagtgc ggtatcaact agcgggcgcg gtctgtgatt cctggagcgc ggaattggct 240
aaagttcaac gtgcagtcgg catgatttcc aacagcactg ccatctctga agtcttgcc 300

agaattgatc acaagttga tcttatgtat gcaaagagag catttggta ttggtagtt 360
ggagaaggta tggaagaacg tgaacttcc aaagcacgtc aggatcttc cgctctccat 420
aaggat 426

<210> 2603
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F5

<400> 2603

cggacgcgtg ggccggacgcg tggacaagg caggtagtg gatatgattc aaagtttgg 60
tactagtttc tattcttttc aagattcgaa acaacttcca tcggaaatgtt gaagtcgttt 120
tgaaggcgtt gattgtgtgg tgttagccaac tggagtggca aggaaatggaa gagcagcatg 180
atcagctcgg gggaggaggg gcgtcagttg tggagtgtc tactagaatc tcaaactcac 240
tatgcacaaa tggatggaaatg attgattcct ttattgattt ctctcacgca acgtactacg 300
gaatacgtga gtcactatgt tggatgtata agaaactata ttcacttggg aggtcgccat 360
tttggtaa cttatggaaa ttgggttgtt tccttttat attcattgct tggt 414

<210> 2604
<211> 317
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-F8

<400> 2604

ccccacgcgtc cggccacgcg tccggctaaa cgttgccccc gtcgtatgtc ctcttagcgaa 60
tatagtgatt ccctttgtca acaaagatac ttgtttgtt tggctgtga atgtgttccct 120
gatcgtagt ctttatgcgg agcggagggtt ttgggtggaaag acgcgcggcgt cgccatgaga 180
attcgtggca tttggagggg ggcgcggcgt gcaacggaaag gaggagggtc aagttttgaa 240
caagtaaaag gttttggat tgggttagtt ggaagtaggc aaaggagaaaa ataaaagaaaa 300
gcaacgtctt tttagct 317

<210> 2605

<211> 344
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G10

<400> 2605

ggtcaaaaag cgtcttttt ttttctctgg agcaaatgtc gtttcgattg tgaatccaaa 60
catttggtgg cctcttattt gtccttggtt ctccaaagat tttttttcg ccctagaaaa 120
ctttaacgga tcatacggtt ggctccagtt gaagaaaaga tactttgtgg tagacagcga 180
tattgcctca gattgttagaa agtattgcac tggtttatac agagataacc acgtcttagt 240
gacactgaat ttataccgtc cgctgtctga gagtcgttttgc ttccttagtat tgcattttc 300
ttttgttttc ttgaaataaaa aatttggcgc caatttgtac tggc 344

<210> 2606
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G2

<400> 2606

cccacgcgtc cgccggacgcg tgggtgcagg caaagaagtg acgcagtaga tcagagagta 60
acacatgcaa gtaggtaaag cgaacgggtg agtaaagagg tgtgaaagag tggaagagca 120
tgagggcgca gaagaatgta agaagggggg agagtaaaaa ccataaagga agtaaaagcg 180
ggaatctgag aggaggaaag ccagaggggg ggggataaaaa ggtccagggg aggagaagtc 240
agcagtgggg aaaattgggc aatgtacagg gaagtatgac ccagtaatga ggagtggagt 300
aaacagaaaa ggaagtaaaa ggagggaatg aagggaaagt atggcaaaaa cacgtgccag 360
cagcagcggg taaacgtgtg tagcaagcgt aaagcagaag aactgggtgt aaaggtcgag 420
t 421

<210> 2607
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G3

<400> 2607

cggctcgtga gatgctactc cacaaggtaa agaacccttc gagagtggac tttgtccatg 60
tcgatgttat ggaaaaatct gtactttcta gcttataaa ggatgctgag gtggtttct 120
tcggtgcttc agcttctgca gggtgagag tccctggtaac ttctaagaac accccgaaac 180
aggtgtgacta ctggggggg atgcgggtcg cacaagcggc gggcaagct aaggtaaac 240
gtctcatctt ggtaagctca gcaatggta ctaaccgaag ttcattccct tatttgttct 300
tgaactctgc atttggacga attatgcatt ggaaaatgca aggagaaatt ggagtcatca 360
aagttcatga gaaaaatcca gaaatggctt atactattgt tcgcccagga cacctg 416

<210> 2608
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G7

<400> 2608

cccacgcgtc cgccccacgca tccgggtcg tacgagggtt ggtcatttgc tgagctgaag 60
agtcaatgaa caagcttcag ttgctatgcg taaccaaaca acctgtttca agagcatggc 120
aaagagaaca gaaggggta gactccgaga agaaatcgt tgcagaagga actttggaa 180
gcaggtggaa ggggaggag actgcacaag agagcgcgtc cttaatcgt gaagatgagc 240
aggcagtaca aaggtagca gcgaaacttc ggcagcaaat tgagccatcg gaggaagtac 300
tcgccccaca gagaaggc gtggcagaaa tcttacaaaa gcacgggtgc cagcctaatac 360
aaagtttgc tgaagatatt gtccgtatct ttcattaatt cctccgtgtt tga 413

<210> 2609
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-G9

<400> 2609

cccacgcgtc cgccccacgca tccggaaaag agaagagagc tagaaaggag gtaaaagaag 60
agtaaaaagga ctagaagagg tacggaattc acgaggaagg agcgtgaagg aaggaggaat 120

cccaagtaat cgaggaagaa aaagcttcgg tgaaagcgtg aacggatttt gtacacactg 180
cccgtaagt tcttggaaagt tgcttaggagt ggagtaaaca gaaaaggaaag taaaaggagg 240
aatgaaggg aagttatggc aaaaacacgt gccagcagca gcggtaaaac gtgtgttagca 300
agcgttagagc agaagaactg ggtgtaaagg tcgagtagta gagtaagtgt aaaaggaaaa 360
gaaaaggaga gaaag 375

<210> 2610
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H1

<400> 2610

agacgatgat gtatttgctc ccaccaatga atacgtcatt ggaactgccat atatgttacg 60
cttagtgttt caagatattt atcctgtgaa catgcgcaag gaagaagatg aaggaacttt 120
gtttggaga tttccagatg agagttatga tggctatact agtaacgttc caggaaatcc 180
gtggattcta tgtacttttag gaatggggca atattattt gaggttggag cagagtggtt 240
gaaacatgag gagattgtca taggaaagtggc gagcaaagac ttttcagac atttgggg 300
tatgcctcct ctttctcctc ctcaatcttc tatatacgt accattactg gaaaagcgt 360
tttgtatgtt gtttctgcgc tattagaaga aggagatcgc gtattgaatg ctat 414

<210> 2611
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H10

<400> 2611

tgattcttct tcttctgggtt cttctgggtt tgagagtgc gatagctttt attcgtcatc 60
agatgaggat agctcgatg atgagtacta tagttatgtt gaagatattt ctgattatgtt 120
ttcggaaagaa gaagttgtt acctgtttt agaagaagac acggattcag aagaagaagg 180
ttccagtgc tcggatgc acgttttgc tttttttt agcaatggaa caaaagttgt 240
ttcgcaacag tgtatagaca gaaatagata gatgttagaaa ggaaaacacgt caactattat 300

tatctattct tttcaccaag gaacaaccgt ttgctcgcc ttgtggcgt atatatgtct 360
ataga 365

<210> 2612
<211> 395
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E1-H11
<400> 2612

tgccttagtt gccattactt tgggaccacg tggagcttc ctttctactc attccaatcc 60
ttccgtcata gaaaagaata tcgcttgaaa tccttgaaa tcgccaggaa aggccgtctt 120
tcgacccaat tttcaggcga aaggcactat caacgcagtt ggagcaggag acacattac 180
agcaggtata ttagctatgc ttctaagaca agcacattct tcatacttcc tatctttgaa 240
attgtggca gatgtggat tggctgctgc tatgcaaaga attgactctg gagtcgaacc 300
aaaaacactg caaaaacttg ttatgcaact cgatgagatg cccctgtctt ctgttcagtc 360
ccttgatca tttgtataa atcttccaaac gcaac 395

<210> 2613
<211> 331
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-H12
<400> 2613

ccccacgcgtc cgcgaaagtat tcaatcctcc aaagaaggct atgacggatg atatcacagg 60
agagcctctt gtgaagcgaaat ctgtatgataa tccagaaaact ttaaagaaga gattagaagc 120
atttcataaa agtacggatc ctgtgattcg ttattatgag aagaaaggta ttttatgtcg 180
aatagatgct tctaaagata tcgatcaagt atctcaacaa gtggagcaag ctattgaaga 240
acgacaaaag actgccaatg cagcctgaaa gttgtttgc aagtaaaaag ttttgttgc 300
tttttgtcg tttaaaaaaa aannnnnnnan a 331

<210> 2614
<211> 364

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H2

<400> 2614

ggtgtatgat gcaggcaaag aagtgacgca gtagatcaga gagtaacaca tgcaagtacg 60
taaagcgaac gggtgagtaa agaggtgtga aagagtggag gaacatgaaa gcacagaaga 120
atgtggaga tggtagagt aaaaaccagg ggggaaagta aaagcgggaa tctgagagga 180
ggaaagccac attggcactg agaaaggggc agcgggatag aagtcaggg gggggaaaat 240
tgggcaatgt acagggaaatgt acagggaaatgt acagggaaatgt acagggaaatgt 300
tataaggagg gaatgactgg aagttatggc acaaacacgt gccagcagca gcgtaaaac 360
gtgt 364

<210> 2615
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H3

<400> 2615

atttgaaacg cgtgttttgtt tttttacttt gtacttgatt ctgtaaaac atgtctgacg 60
atattgtgc cttggttatt gacaatggct ctggtaggtt gaaagcagga gttgcagggg 120
acgatgtcc tcgttccatg gtggcgtcga tcgttaggtcg accaagacac caagctatta 180
tggttggat gggagggaga gggaggttat gtgggtgatg aggctcagtc tcgaagggtt 240
atactctttt taaaataccc aatagaacac ggtattgtca ctaattggaa tgatatggaa 300
aagatatggc accatactttt ctacaatgaa ctgcattt cacctgaaga gcatccagtc 360
ttgttgaccg aagctcctctt caatccagag gcaaacaggg agaaaatgac tc 412

<210> 2616
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E1-H4

<400> 2616

cccacgcgtc cggagacatt ggttgcttgg catgagttag ttgagggttg acggagacac 60
tcgtgagttg gtacgacagg ctgcggagta catcggtcg aaagaatata aagtttccga 120
tatagttcga aaacgtctgt atgaagaaga cacgaggttt gccttcttt ctccaaagcg 180
gtcgcaccac gaagaaatag taggagaact gggagaaaca gtacagagac tgggagccaa 240
aagaaagcat aaaacacaac acacacctcagc gaaaagatata agaaaaacta cagaaacgga 300
agattatgga gacagactgt ccacagttc tatgggtacc ttggcctcat atatgaaccg 360
ccacaaggaa agagtgcctt atcaggtact tgatatggan gaaatactcc acgcaacacc 420
tttatctccc gtc 433

<210> 2617
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H7

<400> 2617

agtgactgtc ttcttattcc attttccata caatactcta attgtccgttta aggtttcaat 60
attattacaa gtaaacatga gttgttcaaa gtaaaaaaaaaa agggcgagag aggaagaaaa 120
aaaaaaaaaat aatggcgggg agggttcaga cacaaaataa cttcaaaaga aaaataaaaa 180
gttctccaag cgggggagga gggagtcaag ccaaggaggg gacaactagg gccgtcctgc 240
cagggaaggc actcgaattt accctgcata gccctttaa aacccatcta cctttcgcca 300
atgtgcataa tacggaatca gtttggaaaaa ctcaccgttgg gaaaaagatt caccttcccc 360
aaacttatcc 370

<210> 2618
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H8

<400> 2618

cccacgcgtc cgccccacgcgtc tccggcagaa tggacgacag gcttccacgt ttcaaaagaa 60

cttccacag agtgcttat aagaaaagaa aggaggacac agtaaatgag gcgagaaagc 120
ataggaagtg aaacggatta ggaaccgtg tagtctatgc agtaaaaagaa agaatgagta 180
agaaaaaaagg gagtcattcc agcaggggag taaaggcgca agagggagac ccaaagcaat 240
tgacggaat cgaaaaagg taagaaagag gaccgaatca ggtaagagg tagaggagca 300
agaagagaag agagaatgct gggtgagta gcgaaacaag a 341

<210> 2619

<211> 246

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E1-H9

<400> 2619

ggagttagtg tgcataggac tcgagccat cgattggat cctattggca atgactttgt 60
cgtggagttg agttctggta cggtgttgg tcaagtttct ttggaaagaca gagaatatta 120
tgattatgtat gaaaaggaaa aggaacaagt cgctattacc ggttttagaat ggcaatggaa 180
gagagtataa atttccaaac aacaacaata ataaaaata tagtcataga aattgttttc 240
cacaat 246

<210> 2620

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A10

<400> 2620

agcccacgac tccgcccacg cgtccgatcg tcttccacgc ggaagtaata tgatcgatcg 60
aacagcattg cgcaatgttg gaatgcagta tgtaacaacc gcggatgata ttggacatcg 120
cttggtcgta gagatccaac taaaggaatc cagcaaataat aatagtcaca tgaaggaagg 180
agaacgacca aatgcggta cagatatcat ttctacggac cctgaaatgg atagaaagt 240
atctcagtgg gtgtcgaaag gacaaaaggc attcttagta gaagatgagt tgacgggtga 300
acgtcgagga atattctaa gctcaaccaa attgaaagtt cagaaacaag ccagtcagga 360
ccgaaatagc aatcatggag taaatactag ca 392

<210> 2621
<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A12

<400> 2621

cggacgcgtg ggtggggta tcaggttgc ctccaccatc aactacatct cgaagaatag 60
tactgttcat cagtcaagta agggcaaagt ctccgtataa caacagcagc cactgtttgc 120
acactttact ttcgacagta cactcgattt acttgactcg atgcaaattt gcatggtgt 180
tctgacgctt gacgctcgag atatgtgctc tcgatacaga atcatatgga caaggccatt 240
gcgctttgat agtgaagaac gttacaatgg cgaatggaat ttggagttga agaaatgatg 300
aacactctac ctgctccagt gatagatgaa cgtg 334

<210> 2622
<211> 252
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A2

<400> 2622

ctcaactgaca tcgttatccgc ggttcaacac tagagacgaa cagcacccgac tgtttaacac 60
aaacacagca ttctgccaa ttgttagaaaa tgctcgagta tcgagtgtgc ggcctgcca 120
atactaccga ggaacgaggt gtagcatgca ggcaaaagaag tgacgcactc gatcacagac 180
taacacatgc aacttaggtac agcgaacggc tgagtaccga ggtgtgaaag actggaagaa 240
catgcaacca ca 252

<210> 2623
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A3

<400> 2623

ggtcaggaat tccagtcacg cgtcagatgc aagcggccct tcatggata ttatgctttg 60

gcaaatacca aacagcctt attcgaaagt ccaacaaagc aatttgactt gtcctcacta 120
caaaagactt tcctttgtat tggccgggt tggttaagaa gcggctatgg attaggttt 180
ggagttggct gtgggctggg ctgggtcggt gggttgctt tggatggacct gtctagtc 240
gggtgtcgta gcaccgggtgg tattcctacg cagttcttgc atggtttgcc ttttggacat 300
tacgtttctg gggttttgcga gaacttagct ccaaaaatttc ctggaaagtcc aacaggtatt 360
ggctgtggtt ttggtttggg ctatggcggtt ggaattggtc tac 403

<210> 2624
<211> 343
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A4

<400> 2624

gtccgctgca agccgcccgt gctggatat tatgcattgg aaaataccaa tacagcctt 60
attcgactgt ccaacagtgc actttgacat gtcctcacca tcacacacgt tcagttgtgc 120
tggccgggt tggttaagaa cctgctatgg attacgtttg ggagttcct gtggctg 180
ttttggacat gagtttgctt tcttgtgtcc atgtcaagtc aaagtgtctg aatcaccagt 240
ggtagtccta ccctgttcct gttccgattt ccgtttgtgc ataaagtcac tgcattttt 300
caacatttac ctccaccttt tccttaggagt tcaacatgtta ttg 343

<210> 2625
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A7

<400> 2625

agaagaaaaag aagagaaaaag ccgtactgaa gaccgacaca ggtactcgag gagaaaggag 60
acccaaatta aggtgagaga atggacgata aggaacttagg caaaaggata tggtatctgc 120
ggtagaaacat atgaaaagaag cagcaccgac tggttagcat aaacacagca ctctgcagaa 180
aagagaaaaat gtaaagtata gagtgtgcgg cctgccaaat agtagagaag aaatcgatga 240
aagtgaaagc gagtaaaaga tgaggtatag agaatggcgg tcctaacagt aaggatccaa 300

aggttagcgaa gttaatagac gtttgaagg cgtccagtat gaaggagaa acgagtgtag 360
caactgtctag tcgtccaact cagcggaaaca gcaataactg tgaaaa 406

<210> 2626
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-A8

<400> 2626

agagcaattg agctaattgaa actgggtggaa gaatgactac gttggactac gaatatacg 60
caactccgtt tacagggcca cttctacac ttcacactgg tacagtaaag ctggataatg 120
atgaaataga gcgttattta tctcaactga gaacagcgtc ttgcaagccc cttgcagaag 180
aggatgtctg taaaactgtgt gatatacgcc gggagctttt tattgaagag tccaacgttc 240
atcctgttaa ttgtccaata actgtttgtg gtgatatgca tggacagttt cgctacttgt 300
tagcactcgt taaaatacgt ggcaactgtt cggaaatacaa ctgtcatttc atgggggact 360
atgtaaatag acgatattac tctgtggcag caataactgc cc 402

<210> 2627
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B1

<400> 2627

gggtcgagca cgcgtccggg aagaacggac cgagtttac aagtcgatat tgctggagta 60
ttcttcctcg ccgtttttc aggagtttg atggtaacaa agttctttc ttttagttgtt 120
tatTTactgt atttagattc ctgcctttt tgcgttcaat atgttaattc caatagagca 180
tttgaggaac ggaagtactt atttttcat tgcggtagta attctttgtt tcgttagctat 240
tgctgttctg gccattctgt atgtaaggtg gcttaaagga aatgaaagaa tgcgacttga 300
gttgctgttg ggcaaggaga agacagcaac aataacagga acagtgaata gttagaaacg 360
ttgatgttctg tagatattca ctac 384

<210> 2628

<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B10

<400> 2628

agccccacgcg tccgaacttg acatgcaaca aagtaacctt cgagtagtcc aatcttcttt 60
ggtgtggcaaggc tttgtcctca ttcttaagtat aatctgtgcc attcatgcag taacagccga 120
tgaaaataaca agtttcgaga gaggatacca aacagttgca ccaactcaga cgcagcaatg 180
tcaaaagatt tgtgtcacccg ccacacaaac tcaagttcaa agttgtattt aaactcagac 240
acaggctccg ttcatgtctc aatgtgtcac agcattgcc aactacctgct ataaatacgt 300
aacaaaaatat aagcacgtgt gctgtgagca agaatacgag caacagaatt atcaacagca 360
gcaggtttgt caacagtatt tgcaactatc gtac 394

<210> 2629
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B11

<400> 2629

agccccacgcg tccgatctag tcaaaacaac aacagatggc agcaaaaaac tcgattactt 60
cggaagttgt agattcctct cctagtccta tcgttgcaat agcaatcgac aactcctcga 120
atcggcctct tttcaactcga acatatgaac atcctgactt ggtgctgcct agcgctagaa 180
caggagaaac gagagaacaa cagctacact atttacttt ccggtctcta gactttattc 240
ctggtaagg aaaaagtgcg agggagatga ccgcagacgg ctacttgggt tgtatcaacc 300
cacaagaacc acttcctata ttgcatatg tcaccaatac aagtgtgaag attttattgg 360
cattggtatac gcgtacagct aatgatatga aa 392

<210> 2630
<211> 429
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B2

<400> 2630

cactctatta tattggctat caaatccgag tatgcgcctt ggcttggcc atcaacggag 60
aaatttatga agtgcacgtg cgcaattggg gaatgtcgtg gggtgcaacc attctttgg 120
gttcggcatt ctcactgagc tatacatatca ccagacaagt acgagcattt acgagaactg 180
gagttttgg attgtatgca ggatttaccc gcattttctg gtttatcctt atcattttac 240
tgcctgagac gtatggaaga acgctagaag atattcgaca tatattcgat gaaggtttag 300
ttggattggc aaaatacaac tggagtcaaa ccaaaacatg gatgaggacg acattaagga 360
agcagcatgt agcagtcgtat tctagcagag aatcgatga acttgcgtcg agcatatcgc 420
caacgaaaa 429

<210> 2631

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B3

<400> 2631

gcgaatggga gaattgagca tcttcgtcg tactttagct gaaaatatat cgatgcgatc 60
tgttgaatgc aacagcattt cacatatgga acttgacgtg aagaatgttc ctgcattttg 120
cacaacagct ggcgattcac ttgataatgc tgacttgc aatgcttggaa aactattcta 180
tgagcattat ttgtcaagag acggaattta tttgcattgaa gagaaaaact cttatggcc 240
tggggttcat attcgatatat ctgatgtcat gcagagttct tcgattactt gtgagggaga 300
atcatcctcg gaacaaatat caaaccctt acagaaacaa aagaccgact tgataggtaa 360
ttcattgaaa tgtttgtatg actcatgttg cactgtaaac catgatata 408

<210> 2632

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B4

<400> 2632

agctatttga tgatcatttg acatttcttc aacacaatga agtgagctcc ttgttgaatg 60

tgttgtataa gctttctact agtgtggtaa ctattgcata catggaacgt ctccttgt 120
tgcaacgtat tcgatactgg ttgttggttg ccagttgtat gatgggtgtg gctttggtat 180
ttatgttgat gtttcgacgt tcttttggg agcgtgatga gttgtattac aaggccaaat 240
ctgtttaaag tcaatgttgc tatttgtact tgaaaatctt tttttctttt tggaaatatgc 300
tggtactacg ttgttggtgt tgtatcgagt gacatgtatt tcgtcttgg acaacacaag 360
acatgtgttt ttgagtagta taatacatat gcaagacggg tcgagacaca cacatata 420
c 421

<210> 2633
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B5

<400> 2633

agcccacgcg tccgcccacg cgtccgcaat acattgcgcg tgcaagaacg gcaaagacat 60
cgaaaaagt gaatgagatg ctcggctccg tgaatacggag ttctgcattg gaagctttt 120
aaaggatgaa gtccaaagtg gaagaattgg aaccaagtgc ggaagcaagt gcgggtatga 180
ttggctctgg aaatgccaat ttggaacgac agtttcaggc attggaagga acttcggtcg 240
atgatgaatt ggcacaacta aagtcgagta tcgagtcttc ttctcgacct aaatcacttc 300
cttttcagca ggattccaat atagaagctg agttggaccg aatgaaaaga gaacgagatt 360
attcttgaac tggtcaaggg gggcaatgaa tagacagttat atatataat atatataaag 420
ggtat 425

<210> 2634
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B6

<400> 2634

caagcgtaga gcagaagaac tgggtgtaaa ggtcgagtag tagagtaagt gtaaaaggga 60
aaggaaagga gagaaagagg aaaggatga aatgcagaga tctctagaga aaggcaagaa 120

agaaaaagaaa gtaagacaca gtaaaatgagg cgagaaagca taggaagtga aacggattag 180
gaaccgtgt agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg agtcattcca 240
ccagggagt aaaggcgcaa gaaagaaacc caaagcaatt gacggaaatc ggaaaaaggg 300
gtggatcacg taaattaatc cgatataaac cgagaacctt acctctccaa gaaggtgttg 360
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaa 408

<210> 2635
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B7

<400> 2635

ccccacgcgtc cgtttgtggc attgtttga agaagagagg cccatcctca ccactacgac 60
gagagaagaa accatgacta cgcatgttgc aagaggagaa taaagcgttc cacaacagga 120
agaagaaaat attcccgagg acgccaaaga ctggccacc tatgttcaaa acttgttgtc 180
tcagatgcag agccgttttc aaaccatggc agactctata ctaggcagaa ttgacgagat 240
ggtagtcgt atagacgaac tggagaagag catcgatgag ttgatggaac agactggagt 300
aatgaaggc gatggaacag agtctggta ggttactacg acaagtcgtg gggagtgaat 360
gcttcggttg tagtacgttg gatatcttcc agagtatctc gtactatcta tc 414

<210> 2636
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-B8

<400> 2636

ccccacgcgtc cgcccacgacg tccgcccacg cgtccggag gtgatttcca ccaagtcaca 60
aagaatcgta aaagagaaaa tgacgatagg tttgtacat ccactggaa ctatgttca 120
atgtaacaaa cactacaaaa ctgctacttg ttcttcccag ttttatttcca agtcttcatc 180
gtttctaggg agaaaccatg ggggttgc当地 gtcgtggct cttgcctatg gaagcaaggt 240
ggatcggaac aagtacactt acagtcatcc tagtccgtaa aacaaggaa gaggaccaac 300

tatggttgct tcgaaaacag agttggaca acaagtaaga tccagactag tcaagttgtt 360
tgagcagaca ccttgcata gcatcatggt gagacttgct tggcacgacg ctggaacata 420
tgatgcac 428

<210> 2637
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C1

<400> 2637

cggacacgtg gggtgaggag gaagaactgt ggaacttgc gttgtctggc atcgccactg 60
ttgttgcgaa gacactcgtc gctccaatag atagagcaaa gattttgtt caagttcaac 120
cacttactcc ttgccctgg tatgctcgct atagaactgg tttggaggct cttaaaagta 180
agcggactat tgacagagtt tatattgctg acgttgaaaa ggaattccaa gagaacaggg 240
attctggca tattggagag gaaatggagt gaatctactg agaacgatac cagggctgg 300
cttcaagtttgc ttcatctacg aatactttaa agatcaattc ttcccttccaa ggaaccaatc 360
ctacgatgga ttgttgcgtaa agtaggcgca ggcgtttcgg ctggtaactag 420
cgctgtaa 428

<210> 2638
<211> 181
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C12

<400> 2638

agcggacgacg tggcgtatt cgcgcaatga gaggcaacgt gactatgaag acagaccctt 60
tttgaagtttgc gtgaaaccac ttctgtaccc tcctatcgt tttatccc caaatgtga 120
aaatagcagg attcctcatt agttggatag tacaataat agttgtttag ctttatgtt 180
g 181

<210> 2639
<211> 419
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-052-Q1-E2-C2

<400> 2639

cccacgcgtc cgaaaaggat atggtatctg cggtagaaca tatgaaagaa gcagcaccga 60
ctgttttagca aaaacacagc actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg 120
gcctgccaaa tagtagagaa gaaatcgatg aaagtgaaag cgagtaaaag atgaggtata 180
gagaatggcg gtcctaactg taaggatcca aaggtagcga agtaaataga cgtttcaaag 240
gcgtccagta taaaaggaga aacgagtgtc gcactgtcta gtcgtccaaac tcagcgaaac 300
agcaataact gtgaaaatgc agtaaactag cagtaggacg gaaagcaccc ataagtcttg 360
actagatagg tttaaggang agagagaatc atgaagtaga cgaggtgggg taagagatg 419

<210> 2640

<211> 433

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C3

<400> 2640

agcgactagc gaagttgcag aatttcttcc catcatttct atattcatca tgctgtacgg 60
tgtggtcact ggagccggag gattcctaag aaagttgctg gttgagaaac tctccatga 120
cgaatctatt gaaacaatac tagcacttga tatgaaggag ccactcgaaa gcttagggaa 180
cttgcctaaa acacagaaga aagtggtaga tattcaccgac gaattgcaag ttaagaaagc 240
tattgaagga tatcaagtcc acggggtcgt ccacctcgct gctattatgt caagtttatac 300
tgaagccat ataaccagtg caatgaaaat aaatatgatc ggtgcgatac atatgacgtg 360
atccgttagcg aacgaggcag caaatccaag atttggatc tctagttcaa ttgccgcctt 420
tggaaatgtt gcc 433

<210> 2641

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C4

<400> 2641

agataatggc agttaggcaa tgtttgccta tttcatatg tctttcagct ctgttaggtt 60
caactttggc tgcttctggc gcaacgtcta ttactcggt gcttcagagt aaaagagact 120
atactttac agtccaaagc atagagctgg ctaatctaac agacgtatac aacagcagtg 180
tattggactt tactttcctt gcttccaatg acactgctt gaaacaatcc agagccatg 240
tcactggtgc acttagtgca gcaaaacaaa acgtaacagg agcaatagcg tttctagaac 300
gcttgatagc agcaaggcaca gtgaataaaa cggtgaggt tagtaagctc tctagtggtt 360
cgaaggaggt tgtttcgctg gcaggtttac cgcttaattt cacg 404

<210> 2642
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C5

<400> 2642

agcccacgcg tccgcccacg cgtccgcccc caagggccaa tcattgtccctt cgctattccct 60
gctgttgttt ctaccggagc agggctatct ttgggtgttag ctgcttcaat tgcaaaaggct 120
tggtctgacc tggatcattt atgttagtgcc agggatagag cgctcttgag ttggccccaa 180
gttttcaaaaa gttccaagga caagggcaat cttctcgctc gtcaaggaca agttctatt 240
gaagccccag gttaaagctga gagaattgca agacaaagag caggaggtat ccgttagtgcc 300
gaagatgacg tcgtaccaga ggaacccaac tttctagcaa aggttcccaa acgggagcga 360
gatgggagag cagttttcg tccttcaaag aagtcaaacc cgttctccctt cgagccac 419

<210> 2643
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C6

<400> 2643

agggccttgt gcaagtcaac aaacatagaa aagtacagag attgcaagaa gataatattt 60
tgaatagagc actatcacaa ccaggagatg tatttctgtt ctttgcaac atccagttgt 120

tggtaatgc agaaagagct attataggaa atattacttg tccagaaaagt atcgaattgt 180
gtcgcttatt agctggacat atagcggtt gttcgatga acattggat gacttcgtt 240
tggaaagctat cttgggagca ctattgtgtt cttgttattt tgagtggaaag cgtttgaac 300
gagaattggg ggtacaagaa tggaatgaat tgggaaagat agttcccta gataacttgg 360
agcttgctt tggtacaaga caaagagtgg ataatatgtt acagcgagtt acacag 416

<210> 2644

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C7

<400> 2644

agcatcatga aagctgctgt cttgcattc tttgtcttag cactatgcgc cgttgcttatt 60
caagcttctc ctctagagga cactttgggt gcctttatgc ggggtggta tcaatcgcaa 120
agccaagcac caaaacctag ctgttgcaag ttgaactgtc attataccca actttgtgaa 180
caagttatcg tccagactca acacgtcgac caaactcagc acgtttacca aacataccaa 240
gtacagcaaa cacaacaagt ttctgtcagca tactgacgca atgaggatc cagaggggaa 300
tatggccaac agtctgttagc cccagctcct gcaccttccg tgtcagtgtt ccagtcaagt 360
gctgtattga ctgctcgct tgctaccaat aagtttctca tcacgctcct cagcaagtat 420
ctcaac 426

<210> 2645

<211> 435

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C8

<400> 2645

agacccttt gtcttcggt agagagtgc aagggttgc gctaccaaga cggcatgtct 60
atgcgctcgg gcgacacaga acgagaataa ctagggcaaa agacggaatg ccattcgata 120
aagagtaaac atgcgtgaca ctggaatgc aacaaccgct ggttcgctt ttgcataatcc 180
agccggcgt gtcgttgtct cctgcgagtt agctccggta taacaaggct accaagcctt 240

cttgcataatcg ttcaggcattt atgtcgattt atagttcaag tgtatTTgg aaaaagagta 300
atacaaggac gacttggctt gcatcttctc gtttccttcg tgggttgcta ctgctgttaag 360
tgctcaggga atactacagt gaaaccgaac caatcgagcg aggtttgct atgacagagt 420
gataagaacg tggac 435

<210> 2646
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-C9
<400> 2646

agcccacgcg tccgtctttt tcttggc ttggccgac ttgcaaagag gatgtatgaaa 60
cgagacaaga tcaagtcttg gtatcttcc cagtcttatac cagtggcggt acaaaataga 120
atcacccaat gtcttgctttt attacaaaat caacccaaca atattccttg ctatataccaa 180
caatatggaa tacccgaagt tgctggtttgc tgctttga tatggaaactg ttgcattgaa 240
aaattctttcg cggtcgattt tactacctt ttgcacgttgc ttgttcatc gtattggaa 300
tcgatcgac aatatcagca acatccaacc gacgacccac tactggatag tagtaccacc 360
gagactgtcg tggaccatcc tctcaaccc 389

<210> 2647
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D1
<400> 2647

cgcgacgact cggtcaactt tcgcaaggca aactatTTTC tgggcgttc gagtttagttt 60
gtacttgatg gttttcatag ttactagaat tggaaagtggatcaaccgct ttatcagtt 120
gacgcacatcg ggatattcac cctttgtct catggtgctc catgcagttt ctcagagttt 180
gcaaggTTTT ctatTTggac ttacttatat ttaccacgaa agagcactag gggaaagtgt 240
tctattcatt cgtcgcaagt ggagtgcag aggggatTTT cgcgaggatt ctTTTatcgc 300
attagagaaaa agaggacttg cccatttttc acaatttgat gaagacgagg aagaag 356

<210> 2648
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D10

<400> 2648

agcccacgctccgagtcgtcgtggatcg agttttgagg agaaggaaacg ttgcaagtca 60
aagcaaccataatcgatcat gctcttgaa aattcggcag gtctgcataa aatgtttc 120
cgtgactttt ctatgtggaa aagaaaagaa aggacattat atctcaaaga tgatctacca 180
gtgatggatt acaaattcat cttgatgagt tgggggtcaa cgatccatat gaaatgaagt 240
ctcaattatg gaaatgactt gccaggttaa tttcttagca ttcatttggc ttccttatac 300
tggaaaactc cgatggaaag tttgtggata aattcagtaa aaagtataac agcagaatac 360
tctaattggaa aacatttgc gaaatttgcg ttttg 395

<210> 2649
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D11

<400> 2649

agcacatggcgcgggattcc gagagagtgc atgttggtag aacaaacgtt tgctgttgac 60
aagacttttacatcgatcat ctttcaatg tctgcagtgg aagtcttaca agtaaatgtt 120
ctaaataacc ctggtttctt tcgagacccg tttgttttgc acataactta tgaagtgaga 180
gaagcgttac aacaagatat tgagtggaaa gtaatttgc tgagttgtgc caaagacgag 240
agtttggacc aagttttggaa tgaagtactt cttccagcag atacgggtggc tcgtttcag 300
tttactttgg aggtctcagc acccaatcca gacaaaatac ctatgtatgc cttattgggt 360
attacggcag tattgattac ttgttcc 387

<210> 2650
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D12
<400> 2650

agccccacgcg tccgaagttt ctgggtctag gcagtctcgt atctgagcgt cgccatgaca 60
atgaaaatac acttttggcg acagaattca ccttcagta ttctcagagc aggcaaaaca 120
cccttttag tacaatatcc atgctgcaga gttcgaatgt aataagaaaa atcgctcatt 180
ttggcgccctg atcgaggctt gccatacgca tttcctcattc gctggaatgg aacatttcga 240
gttattttac tatggtgaga agaaggcgt ctcagtggcg acatttgtct tcaaaataat 300
tttttgcgag aaaggaaaaat aacgtgagag tataagtacg gccagaaga ggcatttcaa 360
atgaaaacta agatggaata atacgtctac tag 393

<210> 2651
<211> 378
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D7
<400> 2651

aggtactcct cgaaagctat ataagtagcg tatgcaggaa agaagaaggt aaaggaagag 60
aaggaagaag cagagaggga ctatgagcga gaaggtggat agtcgagagg gaaaaagccc 120
agaagccaag ataaggtatc aaagtaaaga aagaaggaaa aggagaagaa gagaggtag 180
gcttagaagc agcaaaccag agagggaaagc gttaaagcat gaaagaaaag aaatccgaag 240
aagaagagaa aaaggtaaga aagaggaccg aatcaggta agaggttagag gagcaagaag 300
agaagagaga atgctgggtg gagtagcgaa acaagagaag ggaagtaaaa cgtaaagaaag 360
aggaaagggtt tacgagag 378

<210> 2652
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-D8
<400> 2652

aaaacaaact tgtggaggca gatgccatca tatttggatt tcctacacgc tttggtatga 60

tgtgtgctca aatgaaggct atgtttgact ctcttggaca tttgtggcaa agcggtcagc 120
tggttggaa acttgcgggt atctttgtat ccaccggta ctaaggaggt ggacaagaaa 180
cgactgctt aactgccatt actcagttgg cacacttggg aatgatttc gttccgacag 240
gttggaatat attggaaata actttcatg ttttgtaat attggatagg atattcttat 300
ggcagtgata tgtttggtt aaaggagcct cagggaggtt ctgcttatgg tgcaggtacc 360
tttgcaggtg cagatggaag tcgacaacct tccgaatacg agttggctag agcaaaaacat 420
c 421

<210> 2653
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E11

<400> 2653

agccccacgcg tccggtcgta gtggtaaatg aacaccgaga gcaaaaactgt caaacttgc 60
agtagtgata atgaagtttt tgaagtagac acaagcattg tatcccttgc tggaaacaata 120
aaaaaacgtct tggaaagacac ggaggataca gagagcattc cttgcctaa tggaaagga 180
cgaattcttgc caaagggttat cgagtattgt agatatcact cactcttaaa gaccattccg 240
cagtctgagg aggatattga gcgcgtggat agggattcc taaatgtaga tcaaccaacc 300
ctttttcatt tgattctggc tgcaaactat ttggatatca agagcttggtt ggatttaact 360
tgtaaacgag tagcagatat gatcaaa 387

<210> 2654
<211> 432
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E2

<400> 2654

cccaagcgtc cggtttttt cgtaaaagtt ttcattcagc atggctccta aaggtgctaa 60
aagtgtaccc gttgcaggta aaaagccggc ggcaaaaagtt gaaaggaaga aatcaaagaa 120
gaagagatcg gagacgttattt ccatttatata atacaagggtt ctgaagcaag ttcatcctga 180

caccggaata tccgcaaagg ctatgagcat catgaattcc tttgtgaatg atattttga 240
gagaattgcg tcagaagcta gcaaattagc tgcttattcg aaaaggcaaga cgcttacttc 300
gagagaggtt caaaactgccg ttcgtctttt gttaccagga gaacttgcaa aacacgctgt 360
atcggaaggt acaaaaagcag taacaaaata cacttcttct taacggtaca acaagtgctc 420
aaaagggtgtt tg 432

<210> 2655
<211> 284
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E4

<400> 2655

gaccacgcgt caggactagt tcgagatcgt gaggggattt cggttggcc taggcgaat 60
ggcaactcgt gtggaaaact tgcgcggtaa ggagaccatg aagagacctt gcaaaggccc 120
ttttgtggct cctgcctttc aacaatggct tccaaacact taaaaaagaa ctgccttttag 180
caaggatgcc ttgtttagag taagcctgaa gaagtgttt tcgcgcacaa ctaccgtttt 240
tcaaacgacc agtcactatt caagaactat cattatggcg gatt 284

<210> 2656
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E5

<400> 2656

agcacacatt catgtttgcc tttcagtaca gcttatgttc cagttctatt tatctaagga 60
gagttgcattt gaagagtatc aattatcatg gttaccctcg agttatcgta cctaataata 120
ggtaatctt tccaagaatt atctcaagtg ctgccatag tagcagtgc aaggaagggt 180
tcaagaatat cgttataat atcaaggaaa aaggttctga aatataatcac tcagttgaag 240
aaaatgtaaa gaaggagca gaaaaagtat cagaaaaggt tgatgaattc aaagacgctg 300
tgcaggatag aatggaaaat gcagatactt ccaaagcaa agacgtagca agagatgtt 360
tagataaggt caaagatgct ggacaatccg taaaggaggg tgtctctgat ggcaaagaag 420

<210> 2657
<211> 163
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-E8

<400> 2657

gacccaagcg tcagcccacg cgtctgtcca cgcgtagta caaccttggc ccgacttgta 60
agtgaccaag gcgtcgaccc tggcaccatt atcctctatc accggtaactc tcataatgggg 120
ggagaaaacac ttagagacct cttttcaggg ctaacctaataa gtc 163

<210> 2658
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F10

<400> 2658

agcggtggtt ttccaggctt cgatggagag tcacccataaa cgtttacga tatttgggt 60
ggaatccgag agacgataga tttgctttt cctgcggatc aagtgcaggat catagcagag 120
cctggcggtt atttgtttc atccgcctt actttggcta cgaggattat tgcccgatcg 180
tttcgaaccc aatcacagga aggagacggc agttgtctga aggaggctt ttgtttgcaa 240
gaagatattt ctcgttcgag tcttgggtgtt gattactatg ttgatgtatgg tgtttatgg 300
tcgtttcgag atgtgatatac tttgggtgtg gtattctatc ccaaaacgtt tagcagctct 360
gacgacactg ctattgacta tgcacgtttt gttcgt 396

<210> 2659
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F11

<400> 2659

agccccaggcg tccggaacaa cttttggca tcaatcaaaa tttcactgtt tgcttagttat 60
gttaagtacc aagtttagcat acaagggttgc cgccggatgtt aatcacacat gtcgttgcta 120

cactcctgga aacaagctcc ctcaaggcat tcatgttccg gaaagaagta aagtggcat 180
gcttcgtgac gaagatgttgc aaagctatacg tgtagtcgt atagtgtcag gttgaagaga 240
ggcctatacg tcgacagaga atccaggtgc gaaggtcaat gagaatcacf tcctgaaaga 300
catggtgtcg tcattggacc acatgagtct gaaaaggctg tcgtgagttg ga 352

<210> 2660
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F12

<400> 2660

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ggaaaggaaa ggagagaaaag aggaaaggga taaaatgcag agatctctag agaaaggcaa 120
gaaagaaaag aaaggaagac acagtaaatg aggcgagaaa gcatacggaa tgaaacggat 180
tacgaacccg tgttagtcgtat gcagtaaaag aaagaatgag taagaaaaaa gggagtcatt 240
ccaccagggg agtaaaggcg caggagagaa acccaaagca attgacggga atcgaaaaaa 300
ggggtggatc acgttaaatta atccgatgtaa aaccgagaac cttacctctc caagaagggt 360
ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa cg 402

<210> 2661
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F2

<400> 2661

cccaagcgtc cgcatttttc tttgggagaa aacgacgtcg tcgactcatg gcacctaaga 60
agacttcgaa agtagcacct cctcctgaag ctctggtaa aaaagaaaaa aaggagaaaa 120
agaaaagagaa aaaccctttt ttcgaaagca gacccaaagaa cttggattt ggtggagatg 180
tacaaccaaa gagagatgtc tctcgaaaa ttcttatcc cagatatgtt cgtcttcaaa 240
gacaacgaaa ggttctcatg tcgagactca aggtgccacc tgcgatccac cagtttacgc 300
ataccttggaa taaaaacgtt tccaaacagc tattccgctt gttaatgaaa tatagaccag 360

agtgcgagggtt ggaaaagaga aagcgctac gtgaaatggc agaagct 407

<210> 2662
<211> 443
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F3

<400> 2662

ggtctagaat agcgggtcga ggcacgcgtc caccacgcg tccgcatttt tctttggag 60
aaaacgacgt cgtcgactca tggcacctaa gaagacttcg aaagttagcac ctccctcgtga 120
agctctggtt aaaaaagaaa aaaaggagaa aaagaaagag aaaaaccctc tttcgaaag 180
cagacccaag aactttggta ttgggtggaga tgtacaacca aagagagatg tctctcggtt 240
tgttcggttat cccagatatg ttctgtttca aagacaacga aaggttctca tgtcgagact 300
caaggtgccca cctgcgatcc accagttac gcataccttg gataaaaacg tttccaaaca 360
gctattccgc ttgttaatga aatatagacc agagtcgacg ttggaaaaga gaaagcgccc 420
acgtgaaatg gcaaaagctc gag 443

<210> 2663
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F4

<400> 2663

acgcgtcagg attactagtt ctgcatttga gccttcgaat atgatggcca aatgcgatcc 60
aagacacgga aaatatatgg cttgctgttt aatgtaccgt ggtgacgtcg ttcccaagga 120
cgtgaacgca gctgttgctt ccatcaagac gaagcgtact attcaatttg tagactggtg 180
tccaacagga ttcaagtgcg gatatcaacta tcaagctcca tctgtgattc ctgactcaga 240
attggctaaa gttcaacgtg cagtctgcat gatttccaaac agcactgcca tctctgaagt 300
ctttgccaga attgatcaca agtttgcattct tatgtatgca aagagagcat ttgttcatttg 360
gtacgttggaa gaaggatgg aagaagggtga atttccgaa gcacgtgagg atcttgccgc 420
tctcg 425

<210> 2664
<211> 346
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F7

<400> 2664

accttgcggc actgacagtc ttcagaccac gcgacgcatt gtttgaatat ctgcccgtc 60
cacgttgac ggtaacgatc gtaggctcaa ccgatggtct cgaccggta cggggaaacta 120
gcggtacaat aatgaagtgt attggagaag ataaccacca tagcaccatg gaagcttgt 180
cttggtacaa gacaaaccat ggatgatatg ttaccgcgaa tctgcaagca ggcgagcaac 240
atggccactg aaaacacgtc caaacaaccg aaatcgact agagaatagc ggacgatgta 300
ccaggttgtg agacccagtg gagaggagtg cactaggtcg ttggag 346

<210> 2665
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-F8

<400> 2665

agccccacgca tccgcccacg cgtccggcta aacgttgcct ttgtcgatgc tcctctagcg 60
aatatagtga ttccctttgt caagaaagat actttttgc tttggctgtt gaatgtgttc 120
ctgatcgta gtcttatgc ttactacttt ttggtaaaag acgcgccagt cgccatgaga 180
attcgtggca tttggaggtg agcataactt gcaacggaaa aaaaggtcaa gtttgaaca 240
agtaaaaggt tttggcttg gggtagttgg aagtaggcaa cggagatgat aatagaaagc 300
agtcgtcttt ttagctaaaa gaagaatgca ctaagtcaat gaagaaatat taggaagcaa 360
ctttacggaa gttatg 376

<210> 2666
<211> 167
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-G4

<400> 2666

tcagcgtcga actgcaccac tcattgttct gtctcgccct cgctgtacag cgatcttat 60
ggttgttag aagaactctg tttcctgcaa tatagaaagg tatgttagttc acaaccctttg 120
tacttcatta tcttaggttgc tacgcttagt tgtgatagaa tacctca 167

<210> 2667

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H1

<400> 2667

agacgtatgtat gtatttgctc ccaccaatga atacgtcatt ggaactgcca atatgttacg 60
cttagtgttt caagatattt atcctgtgaa catgcgcaag gaagaagatg aaggaacttt 120
gtttggaga tttccagatg atatttatga tggctatact agtaacgttc caggaaatcc 180
gtggattctta tgtactttag gaatggcgca atattattat gagttggcag cagagtggtt 240
gaaacatgaa aagattgtca taggaaagtg gagcaaagac ttttcagac atttgagggt 300
tatgcctcct ccttctcctc ctcaatcttc tataatcaacg accattactg gaaaagcgat 360
ttgtagttat gtttctgcgc tattagaaga aagagatcgc gtattgaatg ctattcgaaa 420
gcataaca 427

<210> 2668

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H11

<400> 2668

agtgccctag ttgccattac tttgggacca cgtggagctt tcctttctac tcattccaat 60
ccttcgtca tagaaaagaa tatcgcttgtt tttcctgtt tgtcgcccagg aaaggccgtc 120
tttcgaccca atttcaggc gaaaggcact atcaacgcag ttggagcagg agacacattt 180
acagcaggtt tattagctat gcttctaaga caagcacatt cttcatctt cctatcttg 240
gaattgttgg cagatgttgg attggctgct gctatgcaaa gaattgactc tggagtcgaa 300

ccaaaaacac tgcaaaaact tgttatgcaa ctcgatgaga tgccccgtgc ttctgttcag 360
tcccttgat catttgaat aaatctt 387

<210> 2669
<211> 328
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H12

<400> 2669

gaccaacgcg tcaacccacg cgccgcgaa gtattcaatc ctccaaagaa gcctatgacg 60
gatgatatca caggaaagcc tctggtaac cggtcgatg ataatccaga aactttaagg 120
aagagattag aagcatttca taaaagtacg gatccggta tccgtatta tgagaagaaa 180
ggtattttaa gtcaaaaaaaaaa tgcttcaaaa gaaatcgatt taagtatccc aacaagtgg 240
gcaagctatt gaagaacgac aaaggactgc caatgcagcc tgaaagttgt tttgcaagta 300
aaaagtgttg ttgtttttt gtgcgtt 328

<210> 2670
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-052-Q1-E2-H4

<400> 2670

tccggaaaca ttggttgctt ggaataattt atttgagggtt ggacggaaac actcgtgatt 60
tggtacaaca ggctgcggat tacatcggtc gtaaagaata taaagttcc gatatatttc 120
gaaaacgtct gtatgaaaaa gacacgaggt ttgccttct ttctccaaag cggtcgcacc 180
acgaagaaat agtaagagaa ctggaaagaaa cagtacaaag actgggagcc aaaagaaagc 240
ataaaaacaca acacacctca gcgaaaagat atagaaaaac tacagaaacg gaagattatg 300
gagacagact gtcacagtt tctatggta ccttggcctc atatatgaac cgccacaagg 360
aaagagtgcc ttatcaagta cttgatatgg aagaaaatact 400

<210> 2671
<211> 368

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-052-Q1-E2-H6
<400> 2671

agaaaagcaag gaaaaacagtc gcaacaaaac aggggaataa aaataaacaa gaatgtgtgt 60
cccaagttgc tgatatttta atggacaagc agcaatgcga aatgctacaa gaacaagtga 120
aagaatactt gttacgttaa ctgggtcaaa acccggtgaa ctcaaggat gaccaggagt 180
tcccgagtct atcaaagacg atcgaatcct tggttcgaaa tccagtcct caaggtgaat 240
ccatcattct aataggacct gcaggctctg ggaagaagaa gctagtagag gaaattgtgc 300
agaaaatgaa atcagaaaagc cagactcaac gtttcaaagt gattcaactg tacggaactt 360
ttcatgct 368

<210> 2672
<211> 413
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-A1
<400> 2672

cccacgcgtc cgccccacgacg tccgcccacg cgtccggcat gatgaagagc gctatgaagt 60
tctttgtatt tagcattatt ttggcaaattt ttgttcttac tattcaagca gcaacggttt 120
tggagacttt ggagtcactg aaatatacag agtatcttga catggtaaag gctgcaggcc 180
tggactcgaa gttcaacgac tctgctgtta catggactgt ttttgcagca aacactactg 240
gagtcaatgc caccttggca ccaatgcact tggttatttc taatatcaca tctaattgcga 300
cgagagagcat agacattgtg gaatatacgt tgtacaacca tactcttttgc tcaaattgata 360
ataagacaag gagcacctat ctttaccggcc gtatacggaa tgaatttgac tgt 413

<210> 2673
<211> 364
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-A10
<400> 2673

gagccacgctcg tcaatggaaa gaatcgctca agaaagagt attcttgcg atatatcggt 60
tctctggttt cgacgtaca tagaacttta ctttatggtg gtatatttg ttatcctgga 120
gataagaaga atcctaattgg caagttgcga ctgctttatg aatgtgctcc gatgagttat 180
ttgattgaac aagccggtgg aaaagctacc aacggaaaac aacgtatTTT ggatatcgTT 240
ccaaacacga cccatgaacg acagcctctt attttaggtt cggaagaaga cgtcgatgag 300
ttgatgcaac tctacgcagc caagttgcaa agtaaagtct agttgtgtct catggttgtg 360
atga 364

<210> 2674
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A11

<400> 2674

gcgtcaacccc aaacgtccgc atggacctat tgcatcaccc acaccaccac tagcgtacca 60
tctcaatgca gcaaggccgt gactacccat actcaaaccct gctgtgctta tgcccaacaa 120
acttcctatg cagtcagttac cgagcaatat gttcagggaaa ctgtatctgc tcaatataact 180
tcttactacg gcaaatcatc ctccagctat tattaccgag cagctgctcc tcagagatgg 240
tatgaggaac aatgcaccc atactgctgg gttccagttac agacctatga aacttatcaa 300
tgttctcaag agaagaagaa ggagtacagc tatccttgc taaacttatga gcaggTTCA 360
actac 365

<210> 2675
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A3

<400> 2675

ggcacgcgtc acgcttcata taaagcattc ccaacactgt tcgaaaaaat cactgcctaa 60
tgcgttggc aattgatcat gtAAATCTCA ccattgacag tcgaaacact cattgatgg 120
acaaaacttca acttggata caacattgag aagaagtacg actcagTTT gtcccaatac 180

aaatatactg gtccatgtca ttacatccgt acgatcaact tttgcttaag gggatcgttg 240
gcttgatgaa gaggagactt .gggaggagaa tactcataat aataatgagg atgatgagga 300
tgatggaaa gagtcgcaac aacaacaaga agaaaagcgt ttacgcaaga tgcc 354

<210> 2676

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A4

<400> 2676

cccaaggcgtc cgaaaaacaag cattggaaga aaagaatcta ggcaatgaat attataagaa 60
gaaacaattc caacaagcta tcgaacatta taacaaagct attgaattgg atcccttggaa 120
tttatcttat cttacaaaca gagctgctgc ctattnagaa atggcgagt tggatagttg 180
tattgaagac tgtcagaaag cagtggattt gaacaaggaa tataacttga gaacagatta 240
taaaataatt gccagagctt atgcaagaat gggcaatgct tatgcaaaga aacaagatta 300
tgacaaagca atcgaatgtt atgagaaatc gctgttggaa tatcacgacg acaaagtata 360
ttcgaaaatg gtacgaaaatg aagaaactca agaagaaatt ggaagaagag tcttatatcg 420

a 421

<210> 2677

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-A7

<400> 2677

aggccacaac caaactttt tattgtttt gattgtgatg gtgtacttgtt aaactcgaa 60
ccttattctt gtgagtcct tcgacaagctt attcttcgag ctactggcgt ggatatccca 120
cacgagtttcaaaacgacta ttttgaagtg tttggcttat ctgtcttattc ttccattgaa 180
tattatgtga aaaagggaaat tctacccgaa aacacagata tcgatggtgtt ggctagaaaa 240
gtgaatgagt tgaaggatcc aatatatgaa gaatttagcaa gagaaagttt atcaactttt 300
cctggattga aggctttct tgaggaagct tggcgaaaa aggttgctct aggtgttgg 360

tcttccggga acacgggaaa agatccgatt caatctaaaa caaggcaggca t 411

<210> 2678

<211> 259

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B11

<400> 2678

gcgtcaaccc acacgtccgc tcacgcgtcc gctcaacgac gtagtgagac tcactcagat 60

tctctttgtat ttgttctatt catctcgat tccctatcgt tgcatcgat aatcctgggg 120

tcaagtaaatc gtgcctcttt tcactcgagg gggtaaacac tctgatatgg tgctgcttat 180

ctctggggga ggagaactga tagaacacca gctagactat ttattttcc ggtctctaga 240

ctttattcct ggtgaagga 259

<210> 2679

<211> 142

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B6

<400> 2679

acccaagcgt cagccaaactc accaagatga atttgaatc catcactggt agatcatctt 60

ttagatctaa ggtcctttct tttctttct atatggaaaa ttcagggaga aatggtttgg 120

tccagagctg ccgaatttc ca 142

<210> 2680

<211> 60

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B7

<400> 2680

acccaagcgt cagcagacac gtagggtcag gaatattctc gaagaagatg caattaagt 60

<210> 2681

<211> 98

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-B8

<400> 2681

actcacgcgt cagcccacgc gtccgaaaaaa aaatagaaaag agaaaaaaaag gagaaaaaaa 60
ataaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaagat 98

<210> 2682
<211> 238
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C1

<400> 2682

gcgtcaaccc acgcgtccga cacacataaa gaagaatgtc gacgacgctt attgaaaaga 60
atgtggttca atgacttgag tactttcca gtgacgtatt cggttcttct tttatgtgtc 120
attacttgtt aataagatat gcctgttgtt gactagttac cgagttgtta ctacgttgtt 180
tattacttat caaggtgtt cttatgatat cggttgtt aactacgatc gagttgtt 238

<210> 2683
<211> 275
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C11

<400> 2683

cacgcgtcca cccaaagcgtc cgcgcatgct tcggccatg cgtccggatg ctcattccag 60
gagatcgta aagagcaacc agacttcgag ccacgagagc actcaggaag atggtctaga 120
ggatggatt caaaagcaata ccgtggagac cgatgtgtca cctccaggtg gtttaggcat 180
tgcgaatctc gactagttgg ctgaacacgc ggctcagagt ctcgtcctcc ctacgacgga 240
acgctctaga cagccccacg catggaggcc gtgaa 275

<210> 2684
<211> 284
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C12

<400> 2684

cacgcgtcag ggaaacgatg agaccgatga tcgggatgag ctgcagagat ctcccagaga 60
agagcatgat ccgagcagac cggaagactc agtccatgag gccagagagc ctgataggtg 120
agacggaggt cgaccccgta ttctcggtgc catcgaagtg ttaccgagtc gtagtttagg 180
gagtctctcg ctcaggggac ttcgggcagc atgctgcacc cagtctcgcc tgacgtgaga 240
cgaaaaccgc ggtggattcc ctccattgat gcggtaaacc cgtt 284

<210> 2685

<211> 424

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C2

<400> 2685

gcgtcagaga gaagagagaa tgctgggtgg agtagcgaaa caagagaagg gaagtaaaag 60
gtaagaaaga gcaaagggtt acgagagaag gaagtagaaaa gaagagagtg taaggcggcg 120
tcataataga aatccgaaag gactagaaga aaagagagag aagaaagaaaa agaagagaaa 180
agccgtactg aagaccgaca caggtactcg aggagaaagg agacccaaat taaggtgaga 240
gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 300
agcagcacccg actgttttagc aaaaacacag cactctgcag aaaagagaaa atgtaaagta 360
tagagtgtcc ggctgccaa atattagaga agaaatcgat gaaagtgaaa gcgagtaaaa 420
gatg 424

<210> 2686

<211> 325

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C3

<400> 2686

gcgtcagccc aagcgtccgg tgatcgac ggagaaacgt atgccgtcca ttcttatgga 60
aagtctatact ttagaaaaga tatctttat ttcggaaact acaggaatgg tgtattcggg 120

tatgggtcct gattcaagag tattatttag aaaggctcg aagttgctc aaagttacta 180
tcaaacctat aaagagccca taccagtgcgt tcaacttgta cgagaaacag cttcgttat 240
gcaagaattc acccaatctg gtggcgtaag gcctttgggt gttagttgt tgatagctgg 300
ttgcgatgaa caaggaccac acctg 325

<210> 2687
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C6

<400> 2687

aggtgtggttg tggagtaagt gcgcttggca gcaaactaaa agatggcaag aagaatcatc 60
ggagcttata tgtctgacgc tactgttagcg tctctattta gcgtgaaaat gttgttctac 120
cttacaatac ttgcgttctc tatcactatt gtgggtctta tggtaagag ttccgacggt 180
atttgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240
gtaaaccacc acggcatagc ttcctattgc aagtatatca tggctgttagc agctattgg 300
ttggtatca gtttcttgcg gttttggat gcattcctcg gaattttctt caagtggcaa 360
caaaagttgt ggtatattga atctgctatc aacgtgtttt tctggcttg gtggtt 416

<210> 2688
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C7

<400> 2688

aggtgtggttg tggagtaagt gcgcttggca gcaaactaaa agatggcaag aagaatcatc 60
ggagcttata tgtctgacgc tactgttagcg tctctattta gcgtgaaaat gttgttctac 120
cttacaatac ttgcgttctc tatcactatt gtgggtctta tggtaagag ttccgacggt 180
atttgggttc acagtgttcc agcgaaagac gaatattgtg catacaagtc ttcccttcaa 240
gtaaaccacc acggcatagc ttcctattgc aagtatatca tggctgttagc agctattgg 300
ttggtatca gtttcttgcg gttttggat gcattcctcg gaagttcgt caagtgg 357

<210> 2689
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-C8

<400> 2689

agccccacgca tccggcccacg cgtccgaaat attcgtagaa tggaacaaat attgttggag 60
agtcaaaaaca aagcgcttgg acaggtgaaa aaggggagcct tgtctataag gtcgttgaac 120
cacgtttcct tttctgtacc cgaaccagtg aagacggca agttctttg cgagattctt 180
ggctttcgag tggttcgacg acccaacttc aattttgacg gtatatggtt gtacagttat 240
ggtattcaaa tacaccttat cgaaggtgct gctctgaaa gaccaaataat cttgaaacca 300
aacacagacc atatatctt cgaagcggat gacctcacaa gtatacagaa taaattggac 360
actttaaata atccgtatct tttggagtt cacgaacggg agaacttgag acag 414

<210> 2690
<211> 255
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D1

<400> 2690

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aaccttccca agccgccact ttccaaaatt ccgccaacca ataagaccaa gattggaaatc 120
caaggccaaa tggtaacaa gttggcaaa agatatgaac cccaggaca gagaacaagc 180
caccatccct tcggggaaa ataagttgtt gaaaactccc caagttgcca actttgaaga 240
tatggatataaata 255

<210> 2691
<211> 329
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D11

<400> 2691

atagataacgc ctaactgttag ttcacgattt atattgttgtt cttgttttgtt ctttataacg 60
actataactt tggttaaatgc acaacgaaac tattataaaag tgctggcgtt ggaaaagaac 120
gcttccgaga gtatgtggtt tagcggtcat tctccaagtt tctttgactt ttgttacgag 180
aaattaagcg cgcttatcat caactagcaa ggaagtatca cccggacaag aacggcgttg 240
acaaccacgc ggaactgaca tttcgagaaa tatctgaagg taagtgtgg taacatgttg 300
gcttcctgct tcttttattt cagttgttt 329

<210> 2692
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D12

<400> 2692
aggtgagcga aattcacttc cttagtaact atgcgttgtt aattttgagt ttcacattta 60
tagggaaattt ctctaaaattt gacgattttc ttttattttt ttaaagttgtt taaaaataaa 120
tttcaacagg tatccaaggt tcttttata gttcttgta tttgccgtac ttgggtggga 180
ttggttttagt cgaggggcgtt ctgttttattt cgatgcccgtt tcccaagttc ctcgctcagc 240
tccttattgtt gggcggtaca tacttatttc gtgcgtttct tgaagcttac aagcaagctc 300
tgtacaacgc tcaagtaaga agcactgcag cgggagcagc aagtcaagttt ttgcgtgaag 360
aaggaaaaat gtccgtcgaa gaagcttgcata atat 394

<210> 2693
<211> 256
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D3

<400> 2693
cgcgtcaggg gcagcgtctg cacatcctcc agacatttgc ctttggatcg ttgaagcagc 60
ctgtacaatc gcttcataa tctacggattt acgattctca ttgcagctaa ttagacggaa 120
ggtaggatttcc agagcctcaa tattaatccat gtgttagccaa agatagttcc accaagaaca 180
ctgaccaaga cagcattttt tcaagagattt attatgtgtt ccaaactcccc agattcgtcc 240

cagttaaaca caaggc 256

<210> 2694

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D5

<400> 2694

agaaaagaagc caattcgagg tggaataacct ctgtgtttc cacagttgg tccttatggt 60

tcccttagcac aacacggatt tgcacgcaac tctatgtggc acttgaaaca aataggtaca 120

acgaaaagatg gctcagccac tggagtcgtg ttgtctttat cttcaaaaga tgtggatgct 180

gcatggacct ctgcgtggcc ttacgcctttt actgcccatt atcagttgtt attagggttt 240

caaggtctac aaaccaattt ctgggtacga aatgaaggag aggagtcctt ttcttcacg 300

tttgccttca acaactattt tcatgtatct gacgtctcta gttgtcaagt atttggattt 360

gaaaataatc cctaataaga atcgtcaaaa gaatgacgag tggaatgaac ga 412

<210> 2695

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D6

<400> 2695

gcaatatgcc tagtcataag gaacaaaata aaggaattaa aatatcagct gacggttacg 60

cactaaagtt gagcggattt cggttggacg tagacggcag tttggtcact atggggacg 120

cagacgacct cagagccctc atgttaagg aaagcctcaa ggaaaagtca aagctgcatt 180

acccaaaatt tttcaaaagc tattatgagg agaataagga ctactttat tatatgactc 240

atacggagaa gaaaatgttt ctttctctgg aagttgcacg agaatacgct actctgggtt 300

gaaactcggtt tctgcagaaa tatttgaca aagtcattga gcacgaacac gcatactaaa 360

ggaaccaacg ttgttgccga taatttgccg tggttgtct gtttgcgttc tgttggg 417

<210> 2696

<211> 410

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D7

<400> 2696

aggcagctta caaatgtgag gaagccactt ccgacatTTT gcgtgatatt gccaaggaaa 60
cgtccaaaat gttgcgaagt tttagaagaag gagaaaaaaat ttccaacctc ggTTCCAAGT 120
ttcgagactt ggTTcaccaa tgTTTgagta ggTTcgacag tgcagTTCT gatgtgaatt 180
ccagtgcTTT ggtgtcacga aaacgaagag aacttgaagc aatcattgac acctcattaa 240
atgctgtctt tggaaaacaa ctgcaggTTT tacgtgagaa tgCTTTGTCG cagttcaagg 300
cttccttatac ttCGGAAGAG gttccgagcg attttgcgtt ctTTactGCC gacagtatgt 360
ttgTTcgaaa agcggaaagga cccaaTTcgt cctggaaagtg attggTCgtA 410

<210> 2697
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E1-D8

<400> 2697

agcccacgcg tccgcccacg cgtccggaat ggacgataag gaactaggca aaaggatATG 60
gtatctgcgg tagAACATAT gaaagaagca gcaccgactg tttAGCAAAA acacAGCact 120
ctgcagaaaa gagaAAATGT aaagtatAGA gtgtgcggcc tgccAAATAG tagagaagaa 180
atcgatgaaa gtgaaAGCgA gtaAAAGATG aggtatAGAG aatggcggtc ctaactgtAA 240
ggatccAAAG gtgcgAAgt aaatAGACGT ttgAAAGGCG tccAGTATGA aaggagAAAC 300
gagtgtAGCA ctgtctAGTC gtccAACTCA gCGAAACAGC aataACTGTG AAAATGCAGT 360
aaACGAACAG tacgacggan agaccgcata attcttgact agatAGGTTT agggaggaga 420

<210> 2698
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-D9

<400> 2698
gtggaaatat cccatcagct ttccaacctt ctccacgcgg tatacgagtg cgaatataacc 60
gaggtggagt ggctacacctt ggtttgttgc tcagacactg tcgaaaacgc aatagtatgg 120
gaagacatac tggtgcttca aggccaaaa ctgctggata tttatgctga aggattacaa 180
ctgttcaaca agtttcgtcg tcacctgatg aacgtgtcct ttgtggaga cagcaaacta 240
tgggattcac tatctcgttt cttgctgttt atccaaccga gtcattctac ttgttggAAC 300
tttcgaaagt ttctcgttca acaccatcac gtttcctatc ttatggagct aaaagtggAGT 360
gaaattgcct t 371

<210> 2699
<211> 395
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-E11
<400> 2699
acccacgcgt ccgtgggtgt ggaacaaaag tggatcaaga aaggatgact tatggttttg 60
ttggcgctag ttcttggttcc tggttgggtt accgcaatcc tcgcaacttg gctaaatgct 120
tcccaacaaaa ggaacataaa atttccgtc gcgcgtaccac acacacgtgt aaaactacta 180
tactggcggt agacaagtcg tcttcttcaa ctagtaatgt tggcaagaca gaacaaagca 240
agcctttga accgaagaag agtgaagagg caaattccctt tcaacagtcc ttttcttagca 300
tgccttcgtat gcaaaataaac tggttttcag atccttccaa gttcaacgcAACaaagtacaag 360
atgttagctca agacataactc catagaccta ctttc 395

<210> 2700
<211> 347
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E1-E12
<400> 2700
ccacgcgtca gggaaaaaaa tggtaatttta gttgaaatca attactctgg aacgtttcac 60
aaacgttcag caagagcaaa caattatgtc agttttctgc atcttctgaa agggcaagaa 120

atccacaaca cttgcgctt tctcggata tgtccttag atatatctt cggcctgtgt 180
ctccactta ccaaagcatt cagaggccga ctccctggag atgtttccta tgtaatttat 240
gcatagtacg tactacaaag gatttgcag tactatgtt atgaaaataa ggaaaagagt 300
ctgtctccctt gttcagagct attgtgtttg gcgtgcacga actgtcc 347

<210> 2701

<211> 349

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E2

<400> 2701

gcgtcagggaa aaaagaagga aagaatagt agtttgcata acaatggcca gtgatccatc 60
gttgtttgc ttgaaagaga gtagaggaag tcattcaagc gttaaagaca gagaccgaag 120
caactgcaga ttctacaagc aagttgcac aacaagcctt ggaacagata ttgaaagggtt 180
ctccaacgag tctcaaagta actttggagt ccatcgaaca agcttcaaag atgacattga 240
agcacacacctt acagaaggat ttccgtatgt cgatgcactt tatgaaaggt cacgactttt 300
atgaaggcat tcgagcaact ttggtagata cgggtagaaa ccctaaatg 349

<210> 2702

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E3

<400> 2702

agagaaaagag gaaagggatg aaatgcagag atctctagag aaaggcaaga aaaaaaagaa 60
aggaagacac agtaaatgag gcgagaaagc ataggaagtg aaacggatta ggaaccctgt 120
tagtctatgc agtaaaaagaa agaatgagta agaaaaaagg gagtcattcc accagggag 180
taaaggcgca agaaagaaac ccaaagcaat tgacggaaat cggaaaaagg ggtggatcac 240
gtaaattaat ccgataaaacc gagaacctta cctctccaag aaggtgttgc acggctgtcg 300
aaagaacgtg ctgtgaagtg agagaacgt a cgagaaagcc aagtgaggaa aaagagggaa 360
gttaaaggc ggccccagaa aggagagggc gtaagacgtg atacagagta ggaagaaa 418

<210> 2703
<211> 327
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E4

<400> 2703

acgcgtcagc ccaaacgtcc gcttggatga aatgcgcaag atgtctagca aaaagtcaat 60
cggttttttc aaggcatga gtataatg tcacttagtc atatgatgtt attccgatta 120
tcataccagt gtaggctatg cacatagggc gaaataatga cgtacaagtt taacggagtc 180
attccaccag gggagtcaat ggcgaagaaa gaaacccaaa gcaattgacg ggaatcgaa 240
aaagggtgg atcacgtaaa ttaatccat aaaccgagaa ctttacctct ccaagaaggt 300
gttgcacggc tgtcgaaata acgtgct 327

<210> 2704
<211> 351
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E5

<400> 2704

atggggtttgc tccactggtc atggaggaag aagcgttatt caagtaagca gggtgtcctg 60
tggttgtat atcacagaaa atttcttagtt atgtaatca acattcgaa gaatatatac 120
accgtttgag ggaagccgtt gctctggatt cagtttagttc ggatccaat aaacgctcgc 180
gttgcttggat tatggccaaat tatatttgc aatggatcga aaaattggaa ggaaagccta 240
ttgtaaagca tataggcaaa caaacgtttc ctgatggcca agttttggac tatcctcaca 300
tcctatttgg agactttact gtggacacca gggagaaacc agtgctcttgc 351

<210> 2705
<211> 363
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E6

<400> 2705

aggacagagc tgccacagag ctacttgtga agactgccct cgaagagcac ggactgaact 60
ttgatccctt agatacggac aaggacctgg tatacctga gaaatattat gagccttgt 120
gaggcgaaat gtggatcctt gaaaaggata acacagtggt tggctgtgct gccttttgc 180
ctattcctga tacgtgtgcg gtagagttc gaaagatgta ctttctcct agcataagag 240
gcaacggtta tggaaagcta atacttggag ctttagagta tcgagcctt gagttggat 300
acacataggg tagattggaa acgtcgacc ttttagaagc tgcttgcaag ctttacgaca 360
aga 363

<210> 2706
<211> 87
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-E7

<400> 2706

agcgtcaaga cagacctgcc aaagagctac gtttgaagac tgcccgcaa aatcaccgac 60
tgcgcttga tcccctagat agcgaga 87

<210> 2707
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E1-E8

<400> 2707

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caaactttat gtgggttcta ttcactttc tattagtcaa gaagattac gcactattt 120
tgagcctttt gggaaagtgc ttcccttgca gtttcacaag gaccctgaaa cgggacgttc 180
acgaggtttt gttttgttc aatacagaaa ccacgaagat gcgaaaaagg cattggaaca 240
attgaatgga ctgtatctt ctggtaggcc tttaaagggtt ggtttggcaa ctgcagagac 300
tcagaaaactt caagtaatgg gtgctattcc ttccggagtt cctagtacaa tagctgcgaa 360
gagcttatca ngtaggggtt atagtgcata tattagtgan atggatg 407

<210> 2708
<211> 346
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-F11

<400> 2708

ccacgcgtca aggacacgtt cggggtgaga ttggagatcc attcgtcgag gcttcggccc 60
gtgacctaag gtcgtgacca gttataatat atttagtgca tagtaaaccc tgtgtcgtgt 120
gcgcggtcc catgtcttat catagagatt gcgatcagta ttgggcttat gctaacctgt 180
gacttggtag atcgcttgg 60
gcagcttgc 120
gactccgagg taataatcct tcactctctc 240
cagtcggttg aacaccacct caatatctca tcatcctcat agtcgccttg tgttacttag 300
aacaccccca cagtggactc ctgtatcgag aaaactggtg acgacg 346

<210> 2709
<211> 242
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-F12

<400> 2709

gcgtccaccc tcacgttcgg ggttacattt ggcctccact gatcgtggct gcgccccgtg 60
tccttagggtc gtggccagct ctactagttt cactggatac tacgaccaat gtcccgtgc 120
cgggtcccat ggctttcct ggacgttg 60
cg 120
ttcagtatcg tcatgatcct gccctggcat 180
ttgtgagaga gcctgaagca gaatgtggaa cacgaggac gagtccgtcg ctcgctccag 240
tc 242

<210> 2710
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-F3

<400> 2710

cgcgtcaggt taacagagac aacatcgaag taatagaact ggtaagtgg 60
a 60
atcatatcaa cgaaggaatg gagaatatac cgaacgatta catgaaggac gagatactac 120

gagaaatgat aagggtggata tatatatcgta taataagtgt gacagtaata tacacgagga 180
gaaagacagg aaagaggtgt atgatgcacg caaagaagtg acgcactaga tcagagagta 240
acacatgcac gtacgtaaag ccaacgggtg actcaagacy tgtgaaagag tggaacaaca 300
tgaaaagcaca caagaatgta cgacatggtt acagtcacca c 341

<210> 2711
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-G1

<400> 2711

aggacaatgg ttgcaaagac tgctctgagt tgcctcttc tctcttcct tatcgctgcc 60
gcagttgcag ccgacgtagt ttcagaggag agatggggat atgctcagca aacccaacaa 120
cagcaacagt gccaacaagt atgtaaacag tatgcatact atcagagtcc agtctgcact 180
tccgtaaacca cacagagccc atactggacc caatgctcga agactgtgca aacctttgtc 240
ccaagccagt gcagtactta taccatatct cctacatgga cctattgcag cacctacacc 300
accactagcg taccatctca atgcagcaag gccgtgacta cctatactca aacctgctgt 360
gcttatgccc acaaaaacttc ctatgcagtc agtaccgagc aatatgttca ggaaac 416

<210> 2712
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E1-G12

<400> 2712

catctacaga gagtagcaat acgaaccgac aaccttcct cggcttgccct tttctcagt 60
ccgtttcagg cttccatat ttaagatctt ttttGattgt tattgttgcattctggta 120
cctctttct ctcctgaaag cacgaaaaa cagtcacaa ggtatgcctcg ttattgacaa 180
gctcttattt cagaagcttc tctggcccta gctttcctt cgtattgcgt tctacaagag 240
tagtgacgga taaaaggatt tatattgtct tggttgctt tctaagttt cgtcgtagg 300

aactttccc gctccatat ttgtcgatag cgctggttc atctcgagag tagttcctgg 360
tttggttgaa gactcgactt ggggttgtct tcatgatgta ngaaatctgg t 411

<210> 2713
<211> 126
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-G2

<400> 2713

gcgtcagtga aacaaacttt gcgaacggtt gtaggagtgc atacgacaca cacaggagta 60
tgctttcctg ttttgtatac tgaattgagt atacctagtg tagaatcact tagagaagaa 120
cgccgg 126

<210> 2714
<211> 288
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-G6

<400> 2714

agcggacgacg tggcggacg cgtggcgga cgcgtggcg aggatcgaat gcagacgctg 60
tagtttgcgt attgtttcggt gttttgtcaa gcttgtctca gtaataaaaaa gtgacatttt 120
tagttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaagg aaggcagcaa aaaaggataa 240
aaaacttacg ttaacgtgaa tgaaaattta aaaagctttt ttaaagg 288

<210> 2715
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E1-H3

<400> 2715

agccccacgacg tccggggcaa ccaactacca ccaaaagtag caactgcaag gaagaacaga 60
gtgtcctaaa gaatagcaag ttgtgatgag gagaattgg agcaaactct tgtcttattc 120

cgccaatgaa gtaaaacttc gggatgttgc ttcttctcta agggagacga gtaaagcgac 180
gggtcttcc atccggagtt ggcttcgtga tatcaaccag tggtatgaag acacttacta 240
taaaaaggaa aaggtggatc ctttggtaca ttatatgtta ctttgggttg gagtgggata 300
taccatcaat tactcccata tcaaacataa agtggagcat aagaatgacg atattgaaag 360
cttgtttaag tcancnttgc tgtgttgcgg tgatggctga cgcatagttg gtgatata 417

<210> 2716

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-H6

<400> 2716

agccaaaagt ttcaaaactgt gttgttatga ctatgccatt ttgctttgtt tttgatacga 60
cttttaagtt ttcaaaaatt ctttatcgaa ggtcttctac cgacctatgt aaacccaaggc 120
accgttcgtc tccattgaaa cacaataccc aagcggtctt cttcaaggag accgaaaaga 180
caaagtctac agaacctgtt aatgttacca gcgcctccaa ctcaaactca aagtcggtca 240
catttgacgg acagttaat aagtctgtt ctaatacatc tccacgaacc aatatatctc 300
tggactctgc aaagttaaag gagtactctt cgaagttctt caacgatatt tctttgcgac 360
ccgggttcta cggtcaactg gcactagctg gtcttagttgg aatcatttgc atacagataa 420

<210> 2717

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E1-H8

<400> 2717

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tgcaaagcgc tctcgaggc gtatgcacag ggatagccag aaaactagcg aggaattctt 120
aaatctcaag gagtatgtga aggagtagtg taaataagcg cagggtgcta tttgagtagt 180
aaaatgtaaa ccgcgtgtct tttgcacat gtcacagcta gtgataggtg aagcagatag 240
cattggctca gacgttagcca tgtaaacaccc gatactactt gatcttatgc tgtccaaacg 300

acgtaaagct ggaccagtat ctgtgagaac agattggca gagatggcat aatgggt 357

<210> 2718

<211> 350

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A10

<400> 2718

atggaaagaa tcgctcagga aagagttatt cttgcgata tatcggttct ctgggtgcgg 60

acgtacatag aactttactt tatggtggtt tattgggtt tcctggagat aagaagaatc 120

ctaattggcaa gttgcgactg ctttatgaat gtgctccgat gagttatttgcattgaacaag 180

ccgggtggaaa agctaccaac ggaaaacaac gtattttggta ttcgttcca aacacgaccc 240

atgaacgaca gcctcttatt ttaggttcgg aagaagacgt cgatgagtttgcattcaactct 300

acgcagccaa gttgcaaagt aaagtcttagt tgtgtctctt gggtgtgatg 350

<210> 2719

<211> 412

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A11

<400> 2719

ctgcccacgc gtccgcattgg acctatttgcac gcacccatcac caccacttgcgttaccatctc 60

aatgcagcaa ggccgtgact acctatactc aaacctgctg tgcttatgcc caacaaactt 120

cctatgcagt cagtagccgag caatatgttc aggaaactgt atctgctcaa tataacttctt 180

actacggcga atcatcctcc agcttattt accgaggcgc tgctcctcag agatggatgt 240

aggaacaatg cacccatcac tgctgggttc cagtagccgac ctatgaaact tatcaatgtt 300

ctcaagagaa gaagaaggag tacagctatc ctgtcaaac ttatgagcag gtttcaacta 360

cttaccaggc tggtcagttac gagtcccaac aagtttacta ccaatgccaa aa 412

<210> 2720

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A2
<400> 2720

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gaagaagaat cgacagaaaa tcatcatggc aagccttggt aacgtcgaaa gacggcagat 120
agtagtaata gtagtagtag taacaatagt agcactagtc aaaaaggtcc tagtacgagt 180
gttttggac atgttggc atccgatggc caagcaaaga aaagagggga ttgttggggtt 240
gatgaagaag agacttggga agagaatact cataataata atgaagatga tgacgatgaa 300
tggaaagagt ctgaacaaca accagaagaa aagcgttt 338

<210> 2721
<211> 208
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A3
<400> 2721

tcaaccacg cgttcgcaac actgttcgaa aaaaacactg cctattgcgt ttggcagttt 60
ttctgtaaat ctctccattg agagtcgaaa gactcggtt tgtagcattc ttcaacttgt 120
gataacaacat tggaggaag tgcgcctaag tttgcattcg aaaataacat acaagtccgt 180
gtcataatac gtgtgttagca agcgttt 208

<210> 2722
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E2-A6
<400> 2722

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aagacaaact ggagctatat ggtaacttta aacaagccaa ggagggtgat tgctccaccg 120
aaaaacccaa aggtctttt aatcaaaaag aaaaagccaa gtgggacgcc tggaattcca 180
aaaaaggtat ttccaaagaa gaagcacaga aaaagtatat cgaaaaggc gatcaactat 240

gcggcacgca gtttcttcaa agcgttcct agtcaccta ggtccttgct ctttttttgg 300
tttgtcggtc ctaattccca aaaaatatga gtaaaagtacc cgttttttc cgcaaaaaaa 360
aaaaataaaaa cagaaaaaaga aaccaatgta atctaaacaa taaaanaaan aatgaataag 420

<210> 2723
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A7

<400> 2723

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ccttattctt gtgagtcct tcgacaagct attcttcgag ctatggcgt ggatatccca 120
cacgagttc caaacgacta ttttgaagtg tttggctat ctgtctattc ttccattgaa 180
tattatgtga aaaaggaaat tctacccgaa aacacagata tcgatgggt ggctagaaaa 240
gtgaatgagt tgaaggatcc aatataatgaa gaatttagcaa gaggaaagtt atcaacttt 300
cctggattga aggctttct tgaggaagct tgtgcgaaaa aggttgcct aggtgttgg 360
tcttctggaa caccggagaa gattcgaatc aatctaaaac aagcaggcaa tccttccaa 420
ttc 423

<210> 2724
<211> 364
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-A8

<400> 2724

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tgggtgtctg ctgggtctt gagtgtatg ataccgaaac ctactgcctt gttcagcgg 120
agatatggtt ttggtttggaa agtttagtatg attgcagcct ttacctggtt gaactttgg 180
tttcaactta tcgaagtcta tttgtctatt ttgacgatat atgttggata gcgcaagcta 240
gtccataactg aagaagatga agacgctgac tatgagggcg ctgatgctca ttcggtttgg 300
tcggaaagga gtccctacaa gtctgtttgt gtgtgtgt ggtctcgaca tgtgggtgta 360

<210> 2725
<211> 87
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B11

<400> 2725

cgctcatgctccgcgtcaac gacgtactga gactcactca ttttctcttt gttttgtctt . 60
tttgtggctgt cctcctcgctc gctcacg 87

<210> 2726
<211> 223
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E2-B2

<400> 2726

acgcaatata tcaacaagtgc acagctgcac attagtaaag cgaacgggtg agttaagatg 60
cgtgaacaag tgacggaata tatcacacag aaagattaag aaatggtagt agtacaaagc 120
ataaggtagt aaaagcagga atctgatatg agganagcca cattggcact gacattatgc 180
ccaaacatca cacgtcatca ctggggaca ttgggcaatg tac 223

<210> 2727
<211> 184
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B4

<400> 2727

acgcgtcaac aaggactttg tactccttgt tacttgtgc ccgggtgcaag ataagcttgt 60
tgaaaagtac tggctccgaa gtatagaatc gtacgcggaa tagccggctc caacagcggaa 120
acacacaacc aaaatagttt attggcgtgt cttggaaattt ggtcaaaaag gcctgtacgc 180
gaca 184

<210> 2728
<211> 100
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B6

<400> 2728

gtcaaccaac tcaccaagat gaacttgtaa tccatcactg gcagatcatc tttccgatct 60
aacgtccatt ctttcttat ccacaaacaa aactctcgga 100

<210> 2729
<211> 72
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-B8

<400> 2729

gacccaaacg tcagcccacg cgtctgaaga aactaacaaa aaaagaaaaac cgaaacccaa 60
tcgcacaaac aa .72

<210> 2730
<211> 444
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C10

<400> 2730

ggtcgagcac gcgtccaccc acacgtccgc ccacgcgtcc gcccacgcgt ccggatgctc 60
attccaagag atcgtccaaa agcaaccaaa ctgcgagcca agagagcaac gaggaagatg 120
gtggagaaga tggtattcaa agcaatactg tggagaccga ggtgttacct ccaggtggtt 180
taggcaatgc taatctcgat gagttggctg aaaatgctgc aaagagtctc gtcataagta 240
ggacggaaag cgccaaacag tcccaagatg gaggcggtga agcggatgaa aacttggaaat 300
ggtgtgcgga cacatcaaaa gaagcaatta aggcaaggca agcggaaagct gcagcagctg 360
caaaggttt ggaaggttt acggattcga agaagaagaa gaacgtcaat gttcctgtgg 420
agaatgacaa ggaagtggaa aaag 444

<210> 2731
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E2-C12

<400> 2731

cgtccaggaa aagagagaaa gagaaaaggg atgaaatgca gagatctcta gagaaaaggca 60
agaaaagaaaa gaaaggaaga cacagtaaat gaggcgagaa agcatangaa gtgaaaacgga 120
ttaggaaccc gtgttagtcta tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcat 180
tccaccaggg gagtaaaggc gcaagaaaaga aacccaaagc aattgacggg aatcggaaaa 240
aggggtggat cacgtaaatt aatccgatat aaaccgagaa ctttacctct ccaagaaggt 300
gttgcacggc tgtcgaaaga acgtgctgtg aagttagaga acgtacgaga aagccaagtg 360
aggaaaagaa ggcaagtaga gggcgccccg agaaagagga aaggatgaa atgcagagat 420
ctct 424

<210> 2732
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C3

<400> 2732

acgcgtcagc ccaagcgtcc ggtgatcgcg acggagaaaac gtatgccgtc cattcttatg 60
gaaagtgcata cttagaaga gatatcttt agttcgaaa ctacaggaat ggtgttagtcg 120
ggtatggtc ctgattcaag agtatttagt agaaatgctc gaaagttgc tcaaagttac 180
tatcataacct atcaagagcc catatcactc gttcaacttg tacgacaaac agcgttcggt 240
atgcgagaat tcacccaaatc tggtggcgta aggcctttg gtgtaaattt gttgatagct 300
ggttgccatt ttttggacc acacctgtat caggtcgatc ctatggaaat cttc 354

<210> 2733
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C6

<400> 2733

gtgggttgtg gagtaagtgc gcttggcagc aaactaaaag atggcaagaa gaatcatcg 60
agcttatatg tctgacgcta ctgtacgctc tctatattgc gtgaaaatgt tgttctacct 120
tacaataactt gcgttctcta tcactattgt gggtcttatg ggttaagagtt ccgacggat 180
ttgggttcac agtgttccag cgaaagacga atattgtca tacaagtctt cccttcaagt 240
aaaccaccac ggcatalogt cctattgcaa gtatcatg gctgtacgat ctattggttt 300
ggttattcagc ttcttcgagt tttggatgc attcctcgga attttcttca agtggcaaca 360
aaagttgtgg tatattgaat ctgctatcaa cgtgttttc tgggcttggt ggtt 414

<210> 2734

<211> 251

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C7

<400> 2734

acccaagcgt cagctcaactc tgtccggata ttgccatatgg aatgctgaac ctgtacagag 60
gcaggttagga tcataccgta ttgatctatc acgtccatat tgtctcaagt tacctggaaa 120
ctgttggctt accttacaat aattgcgggg tcgatcacta ttgttaggtca tatcgctacg 180
acttccgacg gtatggctg ttacactgtt ccagcgattc gacgattatt ctgcatacaa 240
ctcttccctt c 251

<210> 2735

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-C8

<400> 2735

cccacgcgtc cgccccacgcg tccgaaatat tcgtagaatg gaacaaatat tgttggagag 60
tcaaaaacaaa gcgcttggac aggtgaaaaa gggagccttg tctataaggt cggtgaacca 120
cgtttccctt tctgtacccg aaccagtcaa gacgggcaag ttctttgcg agattctgg 180

cttcgagtg gttcgacgac ccaactcaa tttgacggt atatggtgt acagttatgg 240
tattcaaata caccttatcg aaggtgctgc tctcgaaaga ccaaatatct tgaaaccaa 300
cacagaccat atatcttcg aagcggatga cctcacaagt atacagaata aattggacac 360
ttaaatatt ccgtatctt tggagtatca cgaacggag aacttgagac agctgttc 418

<210> 2736
<211> 345
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-D1
<400> 2736

agcgacacgg tttcttgtc ctctaagcgt ttgccttgc atcggtgtgg gaagaagcac 60
actagcttc ctagtcgtca ctttcgata ttgcgtcaac ctattagaac aaagatggga 120
ctcaaggacc aagtgttcaa catgttggc agaggatatg aacccaaaga cagagaacaa 180
gccatcattc cttctgggaa acattatgtt ttgaaaactc ccctagttgc caactttgaa 240
gagatggat ataaatatgc catgttggaa ctcgggtt tctggggagc tgaacgtaaag 300
tttggcaaa ccaaagggtt ttattctaca gctgtcggtt atgct 345

<210> 2737
<211> 395
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-053-Q1-E2-D5
<400> 2737

agaaagaagc caattcgagg tggaaataacct ctgtgttttc cacagttgg tccttatgg 60
tccctagcac aacacggatt tgcacgcaac tctatgtggc acttggaaaca aataggtaa 120
acgaaagatg gctcagccac tggagtcgtt ttgtctttat cttcaaaaga tgtggatgct 180
gcatggacct ctgcgtggcc ttacgctttt actgccccat atcagttgtt attagggttt 240
caaggctac aaaccaattt ctgggtacga aatgaaggag aggagtcctt ttcttcacg 300
tttgccttca acaactattt tgatgtatct gacgtctcta gttgtcaagt atttggattt 360
gaaaatattt cctattatga tcgtcgaaag aatga 395

<210> 2738
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-D6

<400> 2738

gcaatatgcc tagtcataag gaacaaaata aaggaattaa aatatcagct gacggttacg 60
cactaaagtt gagcggttatt cggttggacg tagacggcag tttggtcact atgggtggacg 120
cagacgacct cagagccctc atgttaagg aaagcctcaa ggaaaagtca aagctgcatg 180
acccaaaatt tttcaaaagc tattatgagg agaataagga ctactttat tatatgactc 240
atacggagaa gaaaatgttt ctttctctgg aagttgcacg agaatacgct actctggtg 300
gaaactcggt tctgcagaaa tatttggaca aagtcattga gcacgaacac gcatactaag 360
ggaaaacaacg ttgttgctga tagtttgcg 389

<210> 2739
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-D7

<400> 2739

gcagcttaca aatgtgagga agccacttcc gacatttgc gtgatattgc caaggaaacg 60
tccaaaatgt tgcaagttt agaagaagga gaaaaaattt ccaacctcgg ttccaagttt 120
cgagacttgg ttcaccaatg tttgagtagg ttgcacagtg cagtttctga tgtgaattcc 180
agtgcattgg tgtcacgaaa acgaagagaa ctgaaagcaa tcattgacac ctcattaaat 240
gctgtcttg tgaaacaact gcaggttta cgtgagaatg ctttgcgca gttcaaggct 300
tccttatctt cggaagaggt tccgagcgat tttgcgttct ttactgccga cagttatgttt 360
gttcgagaag cggaagactc cattcgtcct ggaagtgc 397

<210> 2740
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E1

<400> 2740

agggaagaag aaggaaagaa tagtgagttt gtacaacaat ggccaatgat ccatcggtgt 60
tttgcttggaa agagagttaga ggaagtcatt caagcgttaa agaaagagac cgaagcaact 120
gcagattcta caagcaagtt tgccacaacaa gccttggAAC aaatattgaa aggttctcca 180
acgagtctca aagtaacttt ggagtccatc gaacaagctt cacagatgac attgaaacaa 240
accttacaaa aagatttccg tatgtcgatg cactttatga aaggtcacga cttttatgaa 300
ggcattcgag caacttttgtt agataaggat agaaacccta aatggcaacc ggacaagttg 360
gaacaagtaa ctagagcaac tgtagaagaa tac 393

<210> 2741

<211> 443

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E11

<400> 2741

ggtcgacgcc cgcggtccacc cacacgtccg tggttggaa acataagtgg atcaagaaag 60
gatgacttat ggtttgttg gcgcgtatcc ttgttcctgt ttgggttacc gcattcctcg 120
caacttggct aaatgcttct caacaaagga acataaaatt ttccgtcgcg ctaccacata 180
cacgtgtaat actactatac tggcggtaga caagtcgtct tcttcaacta gtaatgttgg 240
caagactgaa caaatcaagc ctttgaacc gaagaagagt gaagacgcaa attcctttca 300
acagtccttt tctagcatgc ctgcgtatgc aaataactgg tttcagatc ctgcgttgtt 360
caacgccaaa gtacaagatg tagctcagga catactccat atacctactt tctatgccca 420
gttgcttagca gctactgttg gta 443

<210> 2742

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E12

<400> 2742

cgtcaaggaa aaaaagtggt aathtagttg aaatcaatta ctctggaacg tttcacaaac 60
gttcagcaag agcaaacaat tatgtcagtt ttctgcacatct tctgaaaggg caagaaatcc 120
acaacacttg cgctttctc ggcataatgtc cttgagatat atcttcggc ctgtgtctcc 180
actttaccaa agcattcaga ggccgactcc ttggagatgt ttcctatgta atttatgcat 240
agtaggtact aaaaaggatt tgtcagttact atgttgatga aaataaggaa aagagtctgt 300
ctccttgttc agagctattg tgtttggcgt gcaggaactg tcgaaagctt catgataata 360
tgtgttttg tgtccaaaac aatggagctg cctttggata gcagaaatgc aagtgctgct 420
gccgtttg 428

<210> 2743
<211> 274
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E2-E3

<400> 2743

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aaaggaagac acagtaaatg aggcgagaaa gcatangaag tgaaacggat tangaaccgg 120
tgtagtctat gcagtaaaag agagaatgag taagaaaaaa gggagtcatt ccaccagggg 180
agtaaangcg caagaaagaa accanagcaa ttgacggaa tcggaaaaag gggtgatca 240
cgtaaattaa tccgataaac cgaaaacctt acct 274

<210> 2744
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E5

<400> 2744

agttgggttg tccactggtc atggaggaag aagcgttatt caagtaagca ggttgtcttg 60
tggttgtat atcacagaga atttctagtt atgtgaatca acattcgaa gaatatataac 120
accgtttgag ggaagccgtt gctctggatt cagtttagttc ggatccaat aaacgctcgc 180
gttgcttggaa tatggccaac tatatttgca aatggatcga aaaattggaa gggaaagccta 240

ttgttaaagca tataggcaaa caaacgttgc ctgatggcca agttttggac tatacctccca 300
tcctatttgg agactttact gtggacacca aggagaaaacc agtgctcttgc gcctattgtc 360
attacgacgt caaacacctgca gatataccaag a 391

<210> 2745
<211> 374
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-E7
<400> 2745

agggttgggt tgtccactgg tcatggagga agaagcgta ttcaagtaag cagggttgtct 60
tgtggttgtg atatcacaga gaatttcttag ttatgtaat caacattcgg aagaatataat 120
acaccgtttg agggaaagccg ttgctctgga ttcatgttagt tcggatccca ataaacgctc 180
gcgttgcttg gatatggcca actatatttgc caaatggatc gaaaaattgg gaggaaagcc 240
tattgtaaag catataggca aacaaacgtt tcctgatggc caagtttgg actatcctcc 300
catcctattt ggagacttta ctgtggacaa caaggagaaa ccagtgtct tggcctatttgc 360
tcattacgac gtcc 374

<210> 2746
<211> 337
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-F10
<400> 2746

ggtcgacgcc cgcggtccacc cacacgtccg ggtttagatt ggttttcttt tcgtccacgc 60
ttcggttttgt tactttttgt cgtgacaagt tataatataa aatggccaaa gtaaaccctg 120
tgtcgctggc tcctaaacta agtgtaacta gagagatagc tatcggtatt gggcttggta 180
tagcgtgtgc tatggatattt cgccagtggc atctcgata cacggaaatg ataagaaaat 240
attatcgccga gttggatgag caagaacaga gttcctcgtc gtcgtgaaaa ccgccttggta 300
tttggatgat agcaataaaag tggactcttgc ttccat 337

<210> 2747
<211> 267
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-F3

<400> 2747

aggttatgtt agaaaagatg gaagtaatac acatggtaag tggactaata ctgaatcata 60
tgacagaagg aatggagaat ataaggaagg attacatgaa ggaggagatt atacgagaaa 120
tgataaggc gatatatata tcgataataa gtgtgatagt tatataaagg aggacaaaga 180
gacgaaagag gtgtacgatg caagctaaga agtgacccac tagatcagag agtaacacat 240
gcaagtacgt acagcgaacg ggtgagt 267

<210> 2748
<211> 129
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-F7

<400> 2748

ttgcacatcg tcgtctgagt tgccctttc gctttcct tatcgctgcc gcagttgcc 60
gcccgtcgt ttcataggag agatggggat atgcgcagca gggccagcac cagcaacagt 120
gccacaacaag 129

<210> 2749
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-053-Q1-E2-G12

<400> 2749

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tctcagtccg tttcaggctt tccatattta agatctttt tgattgttat tggtgctatt 120
ctggtgacct ctttctctc ctggaagcac gaaaaaacag tccacaagga tgctccgtta 180
ttgacaagct cttattgcag aagcttctct gggcttagct ttccttcgtt atgcgttct 240

acaagagtag tgacggataa aggtatttat attgtcttgc ttgcttgc aagtttcgt 300
cgtaggaac tttcccgct tccatatttgc tcgatagcgc tggtttcatc tcgagagtag 360
ttcctggttt ggttgaagac tcgacttggg gtgttca tcatgttanga aatctggtcg 420
ttatgcctgg a 431

<210> 2750
<211> 304
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-G6
<400> 2750

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cgctgttagtt ttgtgattgt ttcgtgtttt gtcaagcttgc tctcagtaat aaaaagtgcac 120
attttttagtt gaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaa 180
aaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaa aaaggaggc cgcccaaag 240
gttaaaaaaac ttacgtatca cgtcatgaa attcaaaac ttttttaaag ggtaaaacaa 300
tttc 304

<210> 2751
<211> 139
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-G7
<400> 2751

acccaagcgt ccgcccacgc gtccgatgga ggtaaactgg tggtgggttg gaggatcgag 60
tgcagaagct gtagtttgtt gattgttgc tggtttgtca tgcttgc agtggggaaa 120
ggtgatattt gtagttgag 139

<210> 2752
<211> 69
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-G8

<400> 2752

ccacgcgtca gcccacgcgt ccggactagt tctgtattga ttggctctac gtctgccaat 60
agttttggt 69

<210> 2753

<211> 235

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H1

<400> 2753

ggtctagaat tacgggccga gcacgcgtca gggagaatgg aagaggagga ggacgctgcg 60
tattattcac aaatagataa ggaagtagtc gagtctatgg aagttccga gagtgtttct 120
gggtttcctg cagagacgga gaagccttat agaataccaa actttacacc attgactcaa 180
gacgactttg acgaagactt gtggtttcc atggaataaa agtatagttt ttgt 235

<210> 2754

<211> 326

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H11

<400> 2754

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gagaacggaa caaactgact atcacgaaga aaagatggag tagatcagga ccgaaagctc 120
acggaagtca gagtaagcgc aggagtcatc ttaatgaaag cagggaaagtc attgctcaag 180
agagtgtaca cctcgtaact tttgcaaat ctcacaacga gtgaaagagg aagccagaag 240
attgcatcac cagtagccag gtaacacccg aagctacttg atcatatgct gtccatgcga 300
actactgctg aatcaatacc tgtgga 326

<210> 2755

<211> 276

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H2

<400> 2755

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tgtacctcca atagtgtctg aacgtatggg aaagcgtatg ttgtatgctg ccagtgttcc 120
tctcaccttt tttgttctcc tttttgttc cctattcgtg gcaaagttc agtttgata 180
tacttttagt ccatcggtag tagcgtatag ttcgttggc cttattttt gtaccatggc 240
agcactgagt tatggtattt tttccgcctc gtggga 276

<210> 2756

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H3

<400> 2756

cccacgcgtc cggggcaacc aactaccacc aaaagtagca actgcaagga ataacagagt 60
gtcctaaaga atagcaagtt gtgatgagga gaattggtag caaactcttg tcttattccg 120
gcaatgaagt aaaacttcgg gatgttggc cttctctaag ggagacgagt aaagcgacgg 180
ggtcttccat ccggagttgg ctccgtata tcaaccagtg gtatgaagac acttactata 240
aaaaggaaaa ggtggatcct ttggtagatt atatgttact ttgtttggc ctggatata 300
ccatcaatta ctcccatatc aaacataaaag tggagcataa gaatgacgat attgaaagct 360
tgtaaaggc accttggcgtt gttgtggta tggctgacgc atagttggc atatagga 418

<210> 2757

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-053-Q1-E2-H4

<400> 2757

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gggtccagat ggtcgccctac atcgagac ttttatcgga ccgaaaaagc cacatactca 120
aataacaatt agagagattt acattggAAC ttAAAGCAT agttcgagcg acccaaatct 180
atccgtttagg agaaaaaaagg cggttagaaaa cttcaataag caagtgtatgc gcggcgatat 240

cgatgaatgg agtttgagga acctcgctta cactaccgat gatattcaag gctatgagtc 300
agattctgac gaggcatccg antattcaag taatgtcaat cagcactctc attcttatgc 360
aactgcgtcc aacagt 376

<210> 2758
<211> 95
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H6

<400> 2758

gaccaagcgt cagccccacag tttcaaactg tgggttatg acgatgccat tttgcattgt 60
acttgctacg acttttaagt tttcacaaat tcctt 95

<210> 2759
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H7

<400> 2759

gacccacaga cgtcagcggc cgccgtggct aagctattac ttgtacaaga ggaacgtaat 60
ggattgacca agtgtgagaa gcaaagtcaa tgaaacagga agaggaaagg cgaacacagt 120
agcgaataaa tctatagtag aaagcagtaa ggaaatgagt actgtgcattg aggacaggaa 180
agtatttgaa gaatagagtg taaagcgcgt agctttgca taatgtccca tcgagtgaaa 240
gaagatgcaa taagaaagaa aaagaagtat ccatttaaga cccgaagcta gttgatctta 300
tgctgtcgaa gcgcacataag gctgacccag tatctgtgga aaatgatttga aagagatgg 360
cataaggggt gacatgccaa tgacagctag tgatatctgg gacaccgcta aagc 414

<210> 2760
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-053-Q1-E2-H8

<400> 2760

agcggacgcg tgggctgacc catgggctgt acgataggtt gatcagggat cgatcacggg 60
tgcaaaacgc cctcaaaggc gcaggcactt gaaaagcgag aaaagttagcg aagaaatcta 120
aaatagcaag gagtaagaga aggactaatg taaatgaacg caggatacta tttgagtaat 180
acagtgtaaa ccgcataacct tttgcataat gtcccagcga gtgaaagacg acgcaaaatc 240
aactaatgga atgtggccag gtacgcctag actccccatg atattcaacg gtacgagtca 300
gattctgact aagcatccga taattcaagt aatgtcaatc agcactctca ttcttatgca 360
actgc 365

<210> 2761
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-A1
<400> 2761

cggaaaaagg ggtggatcac gtaaattaat ccgatataaa ccgagaacct tacctctcca 60
agaaggtgtt gcacggctgt cgaaagaacg tgctgtgaag tgagagaacg tacgagaaag 120
ccaagtgagg aaaaagaaggc aagtagaggg cggcccgaga aaggagaggg cgtaagacgt 180
gatacagagt aggaagaaaa gagaagagag ctagaaagga ggtaaaagaa gagtaaaagg 240
actagaagag gtacggaatt cacgaggaag gagcgtgaag gaaggaggg tcccaagtaa 300
tcgaggaaga aaaagcttcg gtgaaagcgt gaacggattt tgtacacact gcccgtcaag 360
ttctggaagt gtg 373

<210> 2762
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-A3
<400> 2762

gcacgcgtcc gagggcgtaa gacgtgatac agagtacgaa gaacagacaa gatagctaca 60
aaggaagtac aagaagacta taacgactag aagacgtacc gaattcacga cgaaggaccg 120
tgaaggaagg aggaatccca agtaatcgag gaagaaaaag cttcggtgaa agcgtgaacg 180

gattttgtac acactgcccg tcaagttctg gaagtgtgct aagaataagc aggagaagta 240
taagagagta tgaaaagaag aaaggaagtg aagacgtaag acgtaaaaaa aaagcgtaaag 300
acgtgataca gacttaggaag aaaagagaag ag 332

<210> 2763
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-A8
<400> 2763

gcgccgtcgt ggtgttttc gattcttgc ggcagtgttgg ggtgagaata gtaaaacatg 60
acgagatatt ccaaggaacc agataacccg acgaaaactt gcaaagctcg tgcttcggat 120
attcgcgtgc actttaaaaa cacgcgagag acgggacgtg ctttgaagg aatgagctta 180
cagagagcaa aaacttattt gaaaaacgtg atagagaaaa aagagattgt accctttgtt 240
cgctatcgtt atgggtttgg tagaaaagca caagccaaac aacacggtt tcccaacgga 300
agatggccga agaagagtgc gttggatttt ttggacttgt tgaagaacgc agagtccaaat 360
g 361

<210> 2764
<211> 364
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B11
<400> 2764

cggaaaggagt agaagaaaaag agagagaaga aagaaaaagaa gagaaaaagcc gtactgaaga 60
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 120
gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 180
tttagcaaaa acacagcact ctgcagaaaa gaggtgtatg atgcaggcaa agaagtgacg 240
cagtagatca gagagtaaca catgcaagta ggtaaagcga acgggtgagt aaagaggtgt 300
gaaagagtgg aagaacatga aagcacagaa gaatgtaaag aatggtaga gtaaaaaacca 360
taaa 364

<210> 2765
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E1-B12

<400> 2765

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cttagatgca ccagcacaaa agacattaaa ctatataaa gtagataatt atactttgg 120
cacgaagcag tcacccaaa aacaacacga aagaaatcca cagcgttaa aggaaaaata 180
tcaagaaagg ggtttgaggc actctgtgc aggagtactt cttgtacatc accatcgaca 240
tccgcacgtt cttgtattac aacaaaccaa ggactctgga agttttggc ttcatgntgg 300
gcgttggcg tccaagtgaa ggtgactttg gagggttatac gagggaaactt agatatcgct 360
taaggagtcn ctcacaagag aagg 384

<210> 2766
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B2

<400> 2766

agcgacaaca accatcagaa caaagttgg ttggttccgc accgttatta cctcatcgac 60
cagaacagca gtatgtaaa aacacaggaa aaccaagaag aagagttgc aaggaatcaa 120
cgaaagagaa acatccaacg agacacaagt tgaatcatgc aaaaccacga gataaggaga 180
tttggagaaga agaggaaatc ttcaatttac tagaagctt tagaaagtat tttccagaac 240
caccgagcaa tttgagagct caagaaataa ttgaagtagg tattgcata ccttggctt 300
tgaataattc acaggagaaa gagtaggtct ggttagttct ttacggagaa agaacagtgg 360
gagctgtggg aaaacgtttt g 381

<210> 2767
<211> 360
<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-B3

<400> 2767

cccacgcgtc cggataaata tggaatcctg gaaggtttgta tgacgaccgt tcatgcaact 60
actgccaccc aaaagacagt agatggacct tctcacaagg attggagagg aggaagagga 120
attttgaata acattattcc atcttctact ggagcagcca aggctgttgg taaagttatt 180
cctgaactga atggcaagtt gacgggtatg gcttccgtg ttccttgtcc ggatgttct 240
gtcgatcgatg tcactttcg tttaaagacn acaaccactt atgacgattt caaggcaacg 300
atgaaaagctg cgtcagaaag caaagctta aaggaaatat tggcatatac cgaagatatg 360

<210> 2768

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B4

<400> 2768

caacatcatc aaatgccaaa gggagggaaag aaagattttt caaagaaaaga agccacaagt 60
aaacctgcag cagcagatgc tacaaagacg acagaaaagt ctggcccgaa agccaagttt 120
aagggaactg gtgcaaagaa acaataaaaaa gttgactatg catgtcagtcctgttatgt 180
tttgcgttgc ttgttgcata gtttccagct attctttgg tagtgaataa agagaaaattt 240
ttttatattt aaaaaatttc gtttaaagac acaaaccact tatgacgatt tcaaggcaac 300
caaggaaagc tgcctcaaag atcaaagctt taataggaat attggc 346

<210> 2769

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B5

<400> 2769

gaaataataa aagagagaga gcaacgacga caaaagaaaat gaggttattt caacgttgaa 60
aaagaattgg caactatttc atctactcgc aataactctag tcgaccgaat agtttatttc 120

aagcagaccc taggaaatat aatatatatt tacagcatcg agtggagaaa cacctagtg 180
cccattctat gttgcagca tccctacata atcctcgctg tcttacaagt tcttcatcat 240
aacacaacaaca ttggaaccaa gtacacaaaa caacaacaac accaagtgtg gataatcatc 300
ctagtcgtga agaagaaaag agtttgtac tcgttcctgg tcaagagaca aaagaagaac 360
aaggagccaa gcgacag 377

<210> 2770
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B6

<400> 2770

atcggttgc agatatgcaa actccctcg cattctcttg ttggacaccg ttgcagcgaa 60
cttcaagaa cgtagttgc tcgtcttagtt tttgcaaaaa tagctctatt ccgttccatg 120
ctaccaacag aaggagttgt gttttccgc tgtcttttt tggagcgcct gtcgttagtt 180
ataagtggga agtggctgca aacctgcagc gaaggcagtt tggttcagtt tccatggagg 240
tacgtgtga cgtacgtgaa ggtgaaccta tcgattctgc tatagcaagg tttcggagag 300
aagttagcaa aagtggtcac ttgtttgagc tggaaagacg acaagagttt gaacctaata 360
gtgtgaagcg acaaagatca aggaaacaag ctcta 395

<210> 2771
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B8

<400> 2771

cggacgcgtg ggcggacgacg tgggtttcc caacagaaaa tatacacaaa cagtataat 60
ctagaagaat acaatcaact tgagaaaaaa attcaagtaa tcacaacttg catctctatc 120
tcatatcatc tttctatcat ggaccaagtc gatgcattct atgcattgtt gttgtgtgc 180
ttccttagaaa aacttgtga gagtgctatg aactgtttgc caataaagac gacaacggag 240
gtgcaatgcc catttattgg ttggagatcc aagcgctgt ttctgccaac gtacaaagga 300

taagcgtcca tagcaactat atatggcact tgcagctaca atgtatgcaa tgttagtgaaa 360
aacggggtg gattgc 376

<210> 2772
<211> 340
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-B9

<400> 2772

tgatgagctg ttccaaacggc aaaagagaaaa cgagctctag tgcaacactg aatgaccttt 60
aaggcttgat tttccgatt atcataactaa acgctgatt tacacacaac tcacgagaaa 120
ttgatattag agtcgacgag aaagaaaacat attgagaact gatgttaatc tgtctagctg 180
ttggcaataa gacaagctac ggcgtcttc caagtttctt tcaactctta taaacaaaac 240
aagtaaaaacg cctattcact actggtaaag tctttcttt cgataaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaaaaaggg 340

<210> 2773
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C2

<400> 2773

cccacgcgtc cggccacgca tccgcccacg cgtccgcgtat gcggagtgga acataattta 60
cgacaagttg gaaaaaatcg tcgctacagg tgccaaagtt gtacttagta agttggccat 120
cgagagattt agtacgcagt attttgcga tcgagacata ttttgtgctg gtagatttcc 180
agaagaagac atgaaacgtg tcatgaaagc caccggtgca agcatgcagt ctacagtgaa 240
taagctaact gatgatgttc tcggtacttg cgcattgtt gaagagaagc aagttggtaa 300
tgaacgttac aacttttca ctgggttgtcc atatgctaga acagcgacat ttattattcg 360
aggtggttcg gagcagttt a tggatgaaac ggaacgttc 399

<210> 2774
<211> 137

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C3

<400> 2774

tctatgcaga ctgatcctca attcaggta aaccatggat tacttcgggt tagtaatgat 60
cgtttccaca agtcccgtag atgtattcag gaagttgggt ataggagctt aaggatcgca 120
ttccttgcc gatggaa 137

<210> 2775
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C6

<400> 2775

ggtgtatgat gcaggcaaag aagtgacgca gtagatcaga gagtaacaca tgcaagtagg 60
taaagcgaac gggtgagtaa agaggtgtga aagagtggaa gaacatgaaa gcacagaaga 120
atgtaagaaa tggtagagt aaaaaccata aaggaagtaa aagcggaat ctgagaggag 180
gaaagccaca ttggaactga gaaaagggtcc aaacaaggaa agtaaaggct aagaaagagt 240
aaattaggca agcaaaggca tgagagaagt ataatagcag aagcatgctt gaagaaaaag 300
aaagagattt cagaaaggaa agaaaagtca gctatagaga acaggtgaag gagaactcaa 360
aaagaggaga gcaccgaacg atcgaagaag aaactttggg ggtaac 406

<210> 2776
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C7

<400> 2776

cccacgcgtc cgcaagaaca gtgggtgctt tgtaccatgt ctttctgtcc ttacaagtga 60
ataggttcct atggttatct ggactcattc tggcagttgt aactattctt caaacccctag 120
ttatgtatag aagctcaact atagaacaga aggtgtcctc taaacaaaag tcttcaaaga 180
aagaccccaag aaaagaacaa ggagttcag gttgtcctt gacgtggttc caataaaaagc 240

agt cattcaa ctacgccatt cggtcacag ctatggttc cttcttcata tttgaactga 300
tcacatacaa ccggtagaaag cgatggagt cgagacaagg tagaaaaagg aactcgcaac 360
aagtcaaaggc cacaaataag ttgttaaccg aataactgtc caatacgggt t 411

<210> 2777
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E1-C8

<400> 2777

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ttcccaaaag gcgtttcca gagtctgcca agtaagttc aagtgcgtta tgggtgcgag 120
cgttcatcct ccaaagtctc tttatataat acttattgtt gtttggaaat aaactactct 180
cgagtggcag taacttggat acttgctgca accatgtttt ccaccctacc tctgggtctc 240
tgttttata atactgcgtg gtttgctat gctgaaggaa tagaacgtga tttaggcaaa 300
gttggcggtg gtgcagcaag ctcgggaaa acctctactg gtgtatctcg gactgtact 360
agaggagtga acctaagtgg agcagatccc tcgggacagg accttantgg tgtcagttt 419

<210> 2778
<211> 359
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-C9

<400> 2778

gccaatcaa gctagtata gctggtactc ctcgaaagct atataagtag cgtatgcagg 60
aaagaagaag gtaaaggaag agaaggaaga agcagagagg gactatgagc gagaagggtgg 120
atagtcgaga gggaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaagga 180
aaaggagaag aagagagggt aggcttagaa gcagcaaacc agagaggaaa gcgttaaagc 240
atgaaagaaa agaaatccga aaaagaagag aaaaaggtaa gaaagaggac cgaatcaggg 300
taagaggttag aggagcaaga agagaagaga gaatgctggg tggagtatcg aaacaagag 359

<210> 2779
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D10

<400> 2779

atcaattgtg tgttacctcg agaaaacgtat atccacaatt cctttctac tctccaagga 60
gtgtaccaag aaaaaccgta aagaagacaa ctcaactcaa ttctgccaaa cgaacgagtc 120
ctttctgcag taactttgaa gaatctgaag ctctgtgact gcgcacggc acgagacttg 180
tatgaaaagt actagctcaa ggtttactact ggaacaaaac aatactgcaa ttcacttgg 240
cgatccattg cttgcaagca acttacgagt caaacagcga ctcgaagagg caccaacgtt 300
actattcttg caagaataga tatcgccctag tgcaacaaca taagtatata ttggtatatt 360
tgcaatttttta gttcgtcaaa agatgttat 389

<210> 2780
<211> 378
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D5

<400> 2780

cccacgcgtc cgccccacgctc tccgggtgtc cactcgtcga ggaagagcta taaggttca 60
agtggatgac gagaatttac gtgcaactag cagacttagt gtcgggtgtac aagcaatttt 120
tttgcaacct ggtgattgcc tagccgatgt ggatgtcatt ccatcgcat ggctccaaaa 180
gggatcctcg gagttgttatt tcttggcagt tggcaaatat ggaaaaggaa agagaataag 240
agcatttagat attccggAAC gaaaacgata tcaagtagga gtttatgtga tgaagttga 300
tcggaaagaag gaaccgaaag aagagcttcg attttccgt gcgtgtcgaa gcgtgaagt 360
tgtgttgtgc accaacac 378

<210> 2781
<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D7
<400> 2781

gttggattg agaggaggt cgacgagctc agcttgaaga ataattaact tgcgtgggt 60
tggacgttat ttatgaactt ggactctatt gacagatgaa ttaatgcgcc ttttgaccg 120
tttcagacg cctcacgtgg atatgacgca acagtatgca aagatatagt gcatattcgc 180
ttgcaagata gatacggacg caagtgcattt acgacgattc atgggcttga cacataattt 240
gatttgaata gtattacata ggccttcaaa gaggagttt gttgcaacgg ttgtgtcgta 300
tacgacgcac atctggaaag agtcagccat ctgc 334

<210> 2782
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E1-D8

<400> 2782

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ttgaccaagc tccaagatct gaaagcagcc tcattcaaca gagatactac gcacagagag 120
aacccggaagc aagtgaacgg agttgacgaa gaaatggaac ctcaagaatg gctccactgg 180
atagagacaa aggtagattc gtcaacactc gcatcattga aaagccaggt acaaacgata 240
tcaaaaagacc agcaatggac ttttctgtcc tcncttttag agaaagccta ttcaaccgtc 300
aacagcgaag atttatcaac cgaatcctgc tcagtgcac agcttattca aaagaaagac 360
gaagaaatag ctttttgcg gcaacgacta gccg 394

<210> 2783
<211> 353
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-D9

<400> 2783

ccccacgcgtc cgccccacgctc tccgggacct cctctttcca aaaatttattt ctaccacgtg 60
aaccgcaata cgaatagtga aggagaacat aaaaaacgtg caagatgtat acaagaacaa 120

ccgcaagttg tttcgatcc tagcagcccg atggaagaac aagcagcgac atcaccacaa 180
gatgaaagtc cggctccgag cacgagtaat cctagtagtg catcttggaa tgtattgtct 240
ttaccagcag aaaaatggaa agagaaagca ttggatgcag agaaacgtgc tcagagaaca 300
agacaagttg ccaaagcaaa gattaacgag tttcgtgaaa catgttatca ttt 353

<210> 2784

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-E10

<400> 2784

aggatccatc taaagtccaa cctatggcta agatttgacg ggaaggagtt tatgccgc 60
cgtcccaaaa tcgaatttag ctgttggata aaattcggaa caaactatcc tcgatttagat 120
tacgcctacg tagatatgac tgacgacggt aattggatgt tgtacccat tcaagttct 180
gtttcatctt ttccagctca tagcatagac ttagcacagt tggaacggtt gtcaagaaaa 240
actgatggaa ctgttcaact tgcttcgttg ctaaattcgt tctttgctga ggtttagaa 300
gtctcgccctg tgtatgatgc cagggagaag atagtgaact tcgaggtAAC agactctcaa 360
ggcatacatctt ttccgagacag aatatctatt ttgtatgtga ct 402

<210> 2785

<211> 290

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E1-E11

<400> 2785

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ctccttgtga caaggaatgt aataataatg acgagaataa caatttagagg ttatccaa 120
tttccgttct cttttcttcc tctttcattt gttccttgat tctttccaca attagattgg 180
aaggggctaa gaaatagaaaa atagttctta ttccattctt cagtcgagaa ttggaaatat 240
gtggttctat accgatataa agatgaccaa gaatggataa gaacanaana 290

<210> 2786
<211> 262
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-E12

<400> 2786

aggctctagg tccaaacctt gggttggttc ctccaaaatt taaccaaccc aattaactta 60
tccccggaag ttgccaaaccg aagttacaaa ctttacaggc aacttttatta ctacatacgc 120
attcaaacat atgaccaatg caatgacgaa tacaggtacc cttgttggtt tccaaggagg 180
tcctactaat ctcggttgga tgtatctcaa gttctttatg ccacagaccc aagacaagac 240
tctcgaaaaa atgtgtgaaa ta 262

<210> 2787
<211> 295
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-E7

<400> 2787

cccacgcgtc cgagtttggt tgttttcttg gtagcagttg tacattcaac atcatcaa 60
gccaaggaa gaaaaagaaag attcttcaaa gaaaagaagcc acaagtaaac ctgcagcagc 120
agatgctaca aagacgacag aaaagtctgg tccggaagcc aagttgaagg gaactggtgc 180
aaagaaacaa taaaaagttt actatgcattt tgcaatgcattt ttatgtttt tgagttctgt 240
ttgatagttt ccagctattt ttttggtagt gaataaagag aaaattttt ataag 295

<210> 2788
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-E9

<400> 2788

agtttggat gttggcata agaaagctcc catgcagaat tatctcttac acaacacaaa 60
attctgttcc gagtttggaa tgcaatcgct ttgttcggta gagacatgtc gtttattcgc 120

accggaatca gaaatgaata tgTTTAATTc catatttGAA agTCACCAAA agAACAGAGC 180
aggcaacgaa atcatgttgc attatatTTT tcagttgttc caatttcctc gctcatacaa 240
aagtTTATCC tatCTTTCAC agCTGAATCA agCTCTATGT atGAAATGTG gcGTCGAACA 300
ctttcgtaga caaatGCCGT tttGcatGGG ctctCTTTac tggcAGCTGA atGATTGTTG 360
gccAGTGACT AGT
373

<210> 2789

<211> 393

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F1

<400> 2789

aaAGTATTCC ggtGGAATGA ggAGGCGGTT aAGCGTTGCC gTTTCGCTTA ttGGATTCC 60
ttcGGTTGtg ttATTGGACG agcCTTCCAC aggACTAGAT ccAGACTCCA aACACAAGCT 120
gtGGCAATGT atCCAACAGA gaaaAGAGGG caAAactATT gTTTAACGA cacACTCCAT 180
ggaAGAAGCC gAAAGACTGT gtGATCGTAC CGTATTATG GCCAGTGGAA gTTGAAATG 240
tGTTGGTCCt ccAGAGGAAC tGAAGATTG tCTTGGAAAA ggCTTCCGTC tGAATATTc 300
ttGTCGAAGA agacGCGTTA aacaAGTTCT tTCGTTATA gaACAACAGT atGCAGATGC 360
atTTTGGAC cATTCCttAA CGGGTAGTGT tgt
393

<210> 2790

<211> 391

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F11

<400> 2790

agcccACGCG tccGCCAcG CGTCCGCCA CGCGTCCGCC cacGCGTCCG cccACGCGTC 60
cggccATTT tcttGtgAA agcGTTcgat agaaaaATGC caAGAGTTGT tttGGCGCT 120
tgttaATACT CGTGGTACA tatataAAATT atGAATAAAG AAAATCTCCA aATAGCGCAA 180
tttGAGAGAC tcacaACAGA gcaATGCTT aATCTGGTGA aAGAACCTTC tagGGTTG 240
tactACACAG tcGAACACttt gagGAAACGA gggataCCTC gtCTGGTTCG cgaACAAGAG 300

aaactcgaca cagttattag taaggaggac gacctcaaga tagactgtca gtttgtacag 360
gagacgatgg aaatgttcc tgcagctgca g 391

<210> 2791
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F6

<400> 2791

agcccacgca tccgagaggg gattgggtgg tcacgaacga gaggatgttgc ttctttcgt 60
ttttcaaaac gtttatcgcc aaaacagtta cagtagaact caaaaacgtat gtaattattc 120
gaggcaaagt acattcagtg gatcaatatac taaatatcaa gttgaaagat atagaaatac 180
tcaatataga aagttgccca cagttgatga ctttgaaaaa ttcttttatt cgtggtagtg 240
ttatttagta tattcaagta tacgctatcg acgtcgactg cgagatgcta caggaagcag 300
ccagaagaga atacaaggag ttgaagaaag tagccaaata gggcgcaaga cacacgtgac 360
cattgtctat ctatccacgg cgtgatgaac caactgcaac ttttgt 406

<210> 2792
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F7

<400> 2792

agcagatggc caacgctggc caagatggcc ttgtgcaagt caacaaacat agaaaagtaa 60
agagattgca agaagataat atttaataga gcactatcac aaccaggaga tgtatttctg 120
tgctttgca acatccagtt gttggtaat gcagaaagag ctattatagg aaatattact 180
tgtccagaaa gtatcgaatt gtgtcgctca ttagctggac atatagcggt ttggttcgat 240
gaacatttgg atgactttcg tttgaaagct atcttgggag cactattgtg tacttgttat 300
tgtgagtgga agcgaaaaatg aggagaattg ggggtacaag aatgaaatga attggagaag 360
atatcttcct tagatacttg gaagcttgc 390

<210> 2793

<211> 140
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F8

<400> 2793

ggtcaggagt ccccgccg acgcaaacgt cagcatatgg caaacactgg tcaacattgc 60
cttgtgcaag tcaacaaaaca tatactattc gagagattgc acgatgacaa tatTTactag 120
agcagtatca cacccaggg 140

<210> 2794
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-F9

<400> 2794

cccacgcgtc cgccggacgcg tgggtccttt tcgtacattt tggattgtgg cacacaacat 60
gaaaattcct gtccgactcg tcaagtttc ttggaaaaa aagaagccaa ctgtttcaa 120
cagaagtata agtggaatcg cctacacttt ttctcgccat ggacaggttt ctgatgtctt 180
gaaaaaggag actcaaagct atgatgagaa gaaacttggt cttcgcaag tactcgtgtc 240
gtttcttgcc tcaagtata tag gcacaacaga tttggcgtgg ataagaggtta tggaaagat 300
aacagaagaa ggatccaagt tgccttggt tgccggttta gaagggtgtgg cagaagtagt 360
agcaactggc aatcaagtca agtccgtggg tggatggagaa cgcgtggat ctt 413

<210> 2795
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G1

<400> 2795

ctcagtcaga actgcttctc agtttagttac gcaatatgcc tagtcataag gaacaaaata 60
aaggaattaa aatatcagct gacggttacg cactaaagtt gagcggtatt cggtggacg 120
tagacggcag tttggtcact atgggtggacg cagacgacct cagagccctc atgtttaagg 180

aaagcctcaa ggaaaagtca aagctgcatg acccaaaatt tttcaaaagc tattatgagg 240
agaataagga ctactttat tatatgaçtc atacggagaa gaaaatgtt ctttçtctgg 300
aagttgcacg agaaçacgct actctggtgg gaaactcggt tctgcagaaa tatttggaca 360
aagtcattga gcacgaacac gcatact 387

<210> 2796

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G5

<400> 2796

caaatggcgt ccttctact caggatgcc tcgctgtctt tttgacatgt ataggacaag 60
tcattccacg ttttccaaa gtatttagag gogttggaa aactttgtc catagcaagg 120
ccatcgaccg tgtgacggat gtgtggata tgtcggtata ccaaggccct tgtgggtggc 180
gttatatgac gaatttgatg gataaagaca aagtcgatata ttgtgtggat gaaaatggag 240
gtttaggttg tagttggatt cgtgaaagag acgggttgtt tttggcgtt tttggttaa 300
gtttgggtgc ttggaaaaat gaaaatcgat cagagtggat gagcatagag gatgtgatgg 360
aacaacattg gaacatgtat gggaaag 387

<210> 2797

<211> 223

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-G6

<400> 2797

ccgggcccac ccaaacgtca gcacatggcg tccttctac tcaggatgc ctgcgtgtct 60
ttttgacatg tataggacaa gtcactccac gttttccaa agtacttaca ggcgttggga 120
aaacgtttgt ccatagcacg gccatcgacc gtgtgaccga tgtgtggat atctcggttag 180
taccactggc cttgtggttg gcgtcatatg acgaatctga tgg 223

<210> 2798

<211> 414

<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-G8
<400> 2798

cccacgcgtc cgaattttt ttgggttcctt ttcgcatgtc tttagcagca gttgggtcgc 60
aggcagaaaa ccaagacact cgacgtgcca acgcactaaa ggagtatcaa agagtagtct 120
cccagcatag agatattgaa aatagagtgc gaaggcttcg tgaggaagtg aaaactctca 180
agcaacaatt tgataagacg gaagatgact tgaaagcttt gcagagtgtt ggccaaatta 240
ttggagaagt tcttcgagct attgatccgg agaaatttat tgtgaaggct tcaagtggtc 300
cacgttatgt cgtcggatgt agaaacaaaa tcgatagaga taagctcgta cagggagcac 360
gtgtctcttt ggatatgact actttgacca ttatgcgaat acttcctcga gagg 414

<210> 2799
<211> 286
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-H1
<400> 2799

agaaaatatg atacgacgaa aatgccagg aaaaaaaagtg caacagaaaa aaaacgttga 60
tattgcaaaa gtttcttttc ggatattaca gtctctacat tttactcagc gagactctac 120
aaggttgacc taaaaaaaaata ttatattcta gtttcccaag cataggata ctactcgtca 180
atgactacgt attcaaatgc ttcttccaaa ttctgtaaa taactagcaa gcgttgctg 240
caaacgatcg gacaagttt a ctttgataac gttttcaac gttgga 286

<210> 2800
<211> 383
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E1-H11
<400> 2800

aaaaaaaaaaaa aaaaaataaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aataaaaaaaaaa 60
aaaaaaaaaaaa taaaaaaaaaaa aaaaaaaaaaa aaaaaaacag gggggtcccc cttggggttt 120

caatgtttt ttccctgtgg ggttggtctt gagactttt gggcgttcc tcttactttc 180
tattctggc ctgtctttt acatcttcct actggaaaa cccctggtgt ttccccttt 240
acccgcttgt gctgaattcc cctttcgcg ggatggtgtt gtcttata gggcttccc 300
tgtttgcct ttccaatcct tttgtccacc tgtgatggaa aatggaaacc cccctttt 360
tggccctttt cccccgtggg gtt 383

<210> 2801
<211> 359
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H12
<400> 2801

aaggacggtg ctagtgctgc tctttggact tgccgcctat ttctctatac agttgtgtta 60
gcattttcag caacaataat tggacgtgat ggaaagaagg cagataacat atgaaacgat 120
gcccttagatt atcatggaaa agtggtgaac ttttgtgcat attcggcttc gtcagtttt 180
gaaagtggcg accatggcgc atgtaaatat gtgatggctt tggcttctat cagcttgatt 240
ttagtttct ttcgttgggtt ggcctccatt gtcgacgcat tgtatccaat tcttacaaag 300
ttctggtttgg tggagcttgg tatcaagata ttccctacta tgttagtggat ggttgggtgc 359

<210> 2802
<211> 281
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H4
<400> 2802

ccacacgtcc gcccacgcgt ccgccttcct acaatcaata ttcttcttcg tacggttcct 60
ctagctatcg tctcttaact gcagacgaaa accaacttgt gagcagagga ggttatgcac 120
caacaaacca atgtattcta gttcctatcc aatgctgcac tgattgcaaa caatgctacg 180
ccgcatggag ttcttaata ctgatacagt gctcgatag aaagaaacaa atatcaacgg 240
atgtttgttt ctttacgtg aataaaactt gtgttcataa c 281

<210> 2803

<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H5

<400> 2803

cccacgcgtc cgccccacgcg tccgatcgct ataggaaagt gagcaataca gtcttcaagg 60
caacagcttt aacgttgtcg actgctgcag taattggaaa cctatacata ttgccaaact 120
tgctcagcat agtttcctac agaagttcaa agaaggagct gacggaagcc agtagtactc 180
aggaaaaactg agaaacaccaa gttgtttca cgtctggagg atggaaaatat tatctgaagc 240
taggctgggg gtctgttcct tgtagaagct ctgggtttt gagaacttgc aattgtttt 300
ttctttgtag taaagaaatt gtcttcttt ttct 334

<210> 2804
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H6

<400> 2804

aggcttcggg ctataaactt aagatgttgg tgattatctt tgaaatgggt gtagcttcc 60
actccgtaat tattggtctg aatcttgaa taagcacagg atcgacattc cgtacgttgc 120
ttgctgctct cgtatttcat caattcttg aaggatttgc tgtcggtaact actgtttctg 180
aagcccagtt tggcacttgg attactatag taatggtaact ttgctattct ttggaaaactc 240
caatcggtat atctattggg attggatttg cacacactta tcaagaaaac tcctcggcat 300
ctttgttaac gagaggcatt ttggatgcca tctccggtgg aattttata tacacaggat 360
tggtggagtt gttgact 377

<210> 2805
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H7

<400> 2805

agccccacgca tccgcccacg cgtccggcca cgcggtccgga caaaaggctaa tccgaaaacaa 60
ggcatttctc agatgaagtgc gagtttgat ggaaagtatt tggcttcttg taatgaaaac 120
actccgcatg tcctctggat ttggaatgtt cttgaaatgg aacttgaagc agttttgata 180
tgtcagacaa ctattaagac aatacagtgg aatccatatt gcttacaact tgctttgtg 240
acaggttccg aatatctatt tttatggaaat tctcaagggtg ctgtcagtg tccattaccc 300
tttcctgagt ttatccgca gtattgtact tggcccttgc aagagaaagg gacactttg 360
cttgctgaca agagccaatt ctgcctcgcc atggaagaag aataaagctg caa 413

<210>	2806
<211>	382
<212>	DNA
<213>	Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-O1-E1-H8

<400> 2806

agctgacgcg tggggaaac gtaggctgg aggttggtaa tagattactc atttgcttg 60
gcctgaagga cgatgagcac tatctcggtt tctctcaaga aaccggata tgattccccc 120
ctagggtttg ttcctataca atgtattggc ttgtcaccaa tgaaactatt caatacgtgt 180
tgtgctcgac cgatgagagc ttggacctct ccaaccacca taaagtgtat ccaagacaac 240
ctccatgagt gggttcgttg taaagtantt cgttgtggac aaaaacatat atttcttaggc 300
cctatcaaca gcttaactgg ttccaaggca ctgccccatcg aaatanaaag ccaactggat 360
gccgacttgt tgcggtctgc ac 382

<210> 2807
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E1-H9

<400> 2807

agccccacgcg tccgcccacg cgtccgccccca cgcggtccgat gcagccccatg tacagttagca 60
gagaaaaggta tccatattat gacgggtgaag tatatgtatga cacgggtgtt gttccccccgg 120
aaacgaggcc caaaggaaga cgtgtcatag tagaagagcc agaagagtac ggaatgccgc 180

caggggacag agatgatacg gaagatgacg agcacattgg tggttggaga agaagagagc 240
agcacagcat gcagccttgg gaccagtac ctgttgaaca ttgttgcaga ctgttcgaaa 300
atccctttc tgcaatggag agaggaggat tcggtggtt atttgtaac ttgaaacagt 360
ccttaagaag act
373

<210> 2808
<211> 378
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-A1

<400> 2808

cggaaaaagg ggtggatcac gtaaattaag ccgatagaaa ccgagaacct tacctctcgc 60
aagaaggtgg tgcacggctg tcgaaagaac gtgctgtgga gtgagagaac gtacgagaaa 120
gccaaagttag gaaaagaacg caagtagacg gcggcccgag aaaggagagg gcgtggacg 180
tgatacagag tacgaagaaa agagaagaga gctacaaaagg agttaaaga agaggtgggg 240
aggacgaggg gagggagcgg gggggcacga ggaangatcg tgaaggaagg aggaatccca 300
agtaatcgac gaagaaaaag cttcggtgaa agcgtgaacc gagttgtac acactgccc 360
tcaagttctg ggagtgtg
378

<210> 2809
<211> 435
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-A12

<400> 2809

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ctagagcaat gtttgttgg tacctgtggg atcaaggaaa cgggtgaaga tttttatatg 120
cgttggacg agcaacacat gtcttggttt caacctttgg aagaaagtca acgacaatgg 180
ttgcaaagat tgtattccac agcaccgatt gtacaattgc aaggaaagat agaggagttg 240
gaagatattc ggattcaagt gagttggaaa gtatcgctat cctatgataa gcaacgcagt 300

ctttggtgga atcagaatag caacaaaaga gccagtcggg aaacttggta tattctactg 360
gtaaataccca acactggaa aataagtgc ttgcgaagag ttgcgtcnct gaaaaaacag 420
gtgacaagga cattg
435

<210> 2810
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-A5
<400> 2810

agcccacgca tccgcccacg cgtccggat gccagccta ttggtacaag tagcctattg 60
tattcatgat gtgccaccta tatctacctg tgtacgcact atgttctccg agttttggag 120
aagtcatcac gaggaatggc ccaaacaaaa gcaaatgtt cggcccgatc aaagagaagc 180
gttgaatgaa ttgctcatcg caccaagtta ttatgcttga agcgttgcgc gcgcgccagg 240
gaagccaggc tcgtggcatt tttttttaaa aaaagaaaaa agacgaaaaa aaaaaaaaaag 300
gaaagaaaaa aaaaaaaaaa aagaaaaaaa acacgaaacg gagagggcga aaaaacgaaa 360
aacgcggggga acgcaaaaaa aaaggggggg ccccc
395

<210> 2811
<211> 167
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-A8
<400> 2811

gcgcgcgtcgt ggggttttc gattcgtgtc ggcagtgtt gctgagaata ggaaaacatg 60
acgagatatt ccaaggaacc agagtaaccg acgaaaacctt gcaaagctcg tggttcggat 120
agtcccgatgc acgttaaaaa cacgcgaaaa aacggacgtg gtttggaa
167

<210> 2812
<211> 216
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B11

<400> 2812

gtcagcgaaa gaggtctatg agtagagaga tacgtcagag tagaatagaa aagccgtact 60
gaagaccgac acaggtactc gatgagaaaa gagacccaaa ttaacgtgag agaatggacg 120
ataaacgaact acgcaaaatg atatggtac tgcggtagaa catatgaaag aagcagcacc 180
gactgtttag ccaaaacaca gcactctgca gaaaag 216

<210> 2813

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B2

<400> 2813

agccacaaca agcatcagaa caaagtgg gtggccgc accgttatga ccgcttcgac 60
cagaacagga gtatgtgaac aacaaaggaa aaccaagaag aagagttgc aaggaatcaa 120
cggaagagaa acatccaacg agacacaagt tgaatcatgc aaaaccacga gatggcggag 180
attttggaaag aagagggaaat cttcaagtta ctagaagctt ttagaaagta gttgccacgg 240
gcagccagca gcgtgagagc tcaagaaata attgaagtac gtattgcac cccttggctt 300
ttgaataatt cacaggagaa agagtaagtc tggtaagttc tttacggaga aagaacagtg 360
ggagctgtgg gaaaacgttt tg 382

<210> 2814

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B4

<400> 2814

caacatcatc aaatgccaagggagaaag aaagattctt caaagaaaga agccacaagt 60
aaacctgcac cagcagatgc tacaaagacg acagaaaagt ctggccgaa agccaagtt 120
aagggaaactg gtgcaaagaa acaataaaaa gttgactatg catgtgcagt cctgtatgt 180
tttgtgagtt ctgtttgata gtttccagct attctttgg tagtgaataa agagaagatt 240
tttgttagatg tagagaggaa aaaagaaaaa aaaaaaaaaa aaaagaaaaa aaacgaaaaa 300

aaaagggcag ccgccccaaa ggatccaa

328

<210> 2815

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B5

<400> 2815

gaaataataa aagagagaga gcaacgacga cggagaagat gaggttattt caacgttgg 60
aaagaattgg caactatttc atctactcgc agtactctag tcgaccgaat agtttatttc 120
aagcagaccc taggaaatat aatatatatatt tacagcatcg ggtggagaaa cacctagttg 180
cccattctat ggttgcagca tccctacata atcctcgctg tcttacgagt tggtcgtag 240
gagagcaaca ttggaaccaa gtacacaaaaa caacaacaac accaagtgtg gataatcatc 300
ctagtcgtga agaagaaaaag agtttggtag tcgttcctgg tcaagagaca aaagaagaac 360
aaggagccaa gcgacagagt ctgcgagacc gaatatttc aagttttcc g 411

<210> 2816

<211> 376

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B6

<400> 2816

agatcggttg tgagatatgc aaacttccct cgattctct tggtggacac cggtgcagcg 60
aacttcaaag aacgtatgtt gtcgtctag ttttgcaaa aatagctcta ttccgttcca 120
tgctaccaac agaaggagtt gtgtttcc gctgtcttt ggtggagcgc ctgtcgtag 180
ttataagtgg gaagtggctg caaacctgca gcaaggcag tttgggtcag ttgcgttgg 240
ggtgcgttgtt gacgttaggtg aaggtgaacc tatcgattct gctatagcaa gtttcggag 300
agaagtttagc aaaagtggtc acttggtaa gctgaaaaga cgacaagagt ttgaacctaa 360
tagtgtgaag cgacaa 376

<210> 2817

<211> 401

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B7

<400> 2817

agccccacgcg tccgggttta gtccatgtgg tggttagaggt agttggatgg tttatgttgg 60
atcctttcca ttgtgcactt ctccaaagtt tctgtggttt cgcgactttt gtaagtataa 120
aaggactaga aaaagtc(cc) atgggtgttc cttttgggtgc ggttcgaagg aaccttttc 180
cgatggcgcc aagatcacga gtaggagaaa cagcagctca ttcaggtgga agcctagtgt 240
acggggttcgt tttgctaaga aatggcttcc ttcaaggaa attttggac agtggagaga 300
ctcggagcac gtgacacctg cggcaggcg gtcttcaattt cttggaaata gaagattggc 360
tgttctagaa tatacacaag atatattgaa accacttcag a 401

<210> 2818
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-B8

<400> 2818

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atctagaaga atacaatcaa cttgagaaaa agttcaagt aatcacaact tgcattctca 120
tctcatatca tctttctatc atggaccaag tcgatgcatt cggtgcatgg ttgttgtt 180
gcttcctaga aaaacttggtt gagagtgcta tgaactgttt gccagggagg gaggacggcg 240
ggggtgcaat gcccatttat tgggtggaga tccaagcgtc gtgttctgcc aacgtacaaa 300
ggataagcgt ccatagcaac tatatatggc acttgcagct acaatgtatg caatgttagt 360
aaaaaaaaacggg gtggattgca gtcgatcattt tgcaaggaaac gacaagagt 409

<210> 2819
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-C2

<400> 2819

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acgacaagtt cgaaaaaaatc gtcgctacag gtgccaaagt tgtacttagt aagttggcca 120
tcggagattt agctacgcag tatttgccg atcgagacat attttgtgct ggtaggttc 180
cagaagaaga catgaaacgt gtcatgaaag ccaccggtgc aagcatgcag tcgacagtga 240
aggggcgaag tgaggagtgt tctcggtact tgcgcattgt ttgaagagaa gcaagttgg 300
aatgaacgtt acaactttt cactggttgt ccatatgcta gaacagcgcac atttagtatt 360
cgaggtggtt cggagcagt tatggatgaa a 391

<210> 2820

<211> 227

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-054-Q1-E2-C9

<400> 2820

aaaaaaagccc agaagccaag ataaggatc aaagtaaaga aagaaggaaa aggagaagaa 60
gagagggtan gcttagaagc agcaaaccag agaggaaaac gttaaagcat gaaagaaaag 120
aaatccgaaa aagaagagaa aaaggttaaga aagaggaccg aatcanggta agaggtanag 180
gagcaagaag agaagagaga atgctgggtg gagtagcgaa acaagag 227

<210> 2821

<211> 196

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D12

<400> 2821

gcgtcagcca ctacatgagg attaggaatc taactgaata aggaaaacaa gcttaagcta 60
gtttagctgg ggaagtaaag cctaagaaag agtaaattat gcaagcaaac gcgggagaga 120
agtataactag cagaagcatt cttggggaaag tagatagaga tttcagacac ggaataaaag 180
tctgctatcg agaaca 196

<210> 2822

<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-D2

<400> 2822

cggacgcgtg ggtttgcac aaaatattcg acgtcgccat tgagcagccg tgagnggacg 60
tgtaatacga ggccagagaa agggagccgg tagtgttagtt cgtggcatg tcgtcaaaag 120
aaaaggagca gccaagtgt a gacgttgg a ttatgccaa agacacggat atgggagagg 180
atcgctcagg gaaatcatac acgacgcagg a a gaggagct ccttggcgc g a g t g g a g g g 240
tgaggatgg g t a g a g a g a t a a g a g a a g a t a g a g a c t t t a t a g g a c c a g a 300
a t a c g g a c a a t c g t g t a t t g t g a a a g a a g c a a c t a g c a t g t a a c g t c c t t c 360
c a c t t g g t t c c t t a c c t 377

<210> 2823
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D5

<400> 2823

a g c c c a c g c g t c c g c c a c g c g t c c a c t c g t c g a c g a a g a g c t a t a a g g t t t 60
c a a g t g g a t g a c g a g a a t t t a c g t g c a a c t a g c a g a c t t a g t g c g g t g t a c a a g c a a t t 120
t t t t t g c a a c c t g g t g a t t g c c t a g c c g a t g t g a t g t c a t g c a t c g t c a t g g c t c c a 180
a a a g g g a t c c t c g g a g t t g t a t t t c t t g g c a g a t g t g g a a c a g g a g a g a g t 240
a g g a g g a t t a g a t t c c g g a a c g a a a a c g a t a t c a a g t a g g a t t a t g t g a a g t t 300
t g a t c g g a a g a a g a c c g a a a g a a g a g c t c g a t t t t c c g t g c g t g t c g a a g c g a t g a 360
a g t t g t g t t g t g c a c c a a c a c a g g a a g a a t t t g t a c g 396

<210> 2824
<211> 369
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D7

<400> 2824

aggttggaat tgaaaggagg gtcgacgagc tcagcttcaa gaagcgagaa cttgcgtggg 60
gttggacgtt atttatgaac ttggactcta aggacagatg aattaatgcg cctttgacc 120
cgtgtgcaga cgccctcacct ggatatgacg caacagtatc ggaaaatata atgcagattc 180
gcttgcaaga tagaaatcga cgcaaataca tgacgacgag tcatggcgt gacaggcgag 240
tggggtttga ataaaattac aaaggccttc aaagaggagt tttgtgcaa tcgttgtgtc 300
gtatacgtacg cacaactggg aagagtcatc catctgcaac gagaccacag ggattaagtc 360
aatcagttt 369

<210> 2825
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-D8

<400> 2825

agcaaaaagtg cgagcaagta agactcgata ttactagaag tgaagcgtac gttcagttc 60
acgttgcacca agctccaaga tctgaaagca gccgcattca acagagatac gacgcacaga 120
gagaagcggg agcaagtgaa cggagttgac gaagaaatgg aagctcaaga atggctccac 180
tggatagaga caaaggcaga ttcgtcaaca ctcgcattcat tgaggagcgg ggtggaggcg 240
agaggggaag accagcaatg gactttctg tcctccctt tagagaaagc ctattccacc 300
gtcaacagcg aagatttatac agccgaatcc tgctcagtgc aacagcttat tcaaaagaaa 360
gacgaagaaa tagctttttt gcggcaacga ctggccaaag ttgagcaagc 410

<210> 2826
<211> 169
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E10

<400> 2826

cagtttgtat agttggcca ctgcattc acatgcata atagcgtca caacacacac 60
gattctggtt ccagctttgg aaagcactcg ctttgcgtt tgaacacatg tcgttgattc 120

acaccggcaa cacaacttaa ggaacttggc ctccacattt gaaagtccc 169

<210> 2827
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E2

<400> 2827

ccccacgcgtc cgagagggtgt atgatgcagg cgaagaagtg acgcagtagg tcagggacga 60
agacatgcag gtaggtaaag cgaacgggtg agtaaagagg tgtgagggag tggagaaca 120
tgagagcaca gaagaatgta agaaagggtt agagtaaaaa ccataaagga agtgggagcg 180
ggaatctgag aggaggaaag ccacagtggc actgacaaaaa ggtccaaacg agagaagtcg 240
gggtgggcfg acgacggggg caatgtacag ggaagtatga cccagtgtatg aggactggag 300
taaacagaaa aggaagtaaa aggagggaat gaagggagt tatggcaaaa acacgtgcac 360
gcagc 365

<210> 2828
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-E5

<400> 2828

cccccccccc cccccccacc cccccccccc ccacccccc cccacccacc cccccccacc 60
cccccccccc ccccccccac cccccccccc cccccccccc cccccccccc cccccccccc 120
caccggcccc ccccccccac cccccggcaa ccccaacccc ccacccccc cccccccccc 180
cccccccccc cccccccccc ccccaacccc cccccccccc cctccccc cccccacccc 240
ccccacccca cccccccccc cccccccgccc caccggcccc cccccccccc ccccccaccc 300
ccccacccca cccccccccc cccccccccc cccacacccc caccacccccc 350

<210> 2829
<211> 251
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-F2
<400> 2829

ttccttcagc tgagctgaga cagagacgtg tacatagtga cttgcggaaa tccatccaac 60
tgcgcggaac gttatcccga agaacactgg atatacgtcg gtttattgga ttgttttagag 120
cacgttagtg gggggcgtgg cgggcgggat ccagagtgca cggaactaac tttgcctctg 180
atgaacgctg gttccaaata tgaatatctt tggcaagaca acgaccaaca taagaaatca 240
accacagttt c 251

<210> 2830
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-F6
<400> 2830

cccacgcgtc cgagagggga ttgggtggtc acgaacgaga ggatgttgtt ctttcggtt 60
ttcaaaacgt ttatcgcaa aagagttaca gttagaactca aaaacgatgt aattattcga 120
gggaaagtac attcagtggta tcaatatcta aatatcaagt tggaagatat agaaatactc 180
aatatagaaa gttgcccaca gttgatgact ttgaaaaatt cgtggagggg tgggggtggg 240
aggaggtata ttcaagtata cgctatcgac gtcgactgctg agatgtaca ggaagcagcc 300
agaagagaat acaaggagtt gaagaaagta gccaaatagg gcgcaagaca cacgttacca 360
ttgtctatct atccacggcg tcatgtacca actgc 395

<210> 2831
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G1
<400> 2831

ctcagtcaga actgcttctc agttagttac gcaatatgcc tagtcataag gaacaaaata 60
gaggaattaa aatatcagct gacggttacg cactaaagtt gagcggttatt cggttggacg 120
tagacggcag tttggtcact atgggtggacg cagacgacct cagagccctc atgtgttaagg 180

aaaggcctcaa ggaaaagtca aagctgcatg accccaaatt tttcaaaagc tagtatgagg 240
aggagaagga gtacgtggta ttatatgact catacgaga agaaaatgtt tctttctctg 300
gaagttgcac gagaatacgc tactctggtg ggaaactcgt ttctgcagaa atatttggac 360
aaagtcattg agcacgaaca cgcatactaa gggAACCAAC g 401

<210> 2832

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G5

<400> 2832

caaatggcgt ccttcgacg caggatgcc tcgctgtctt tgtgacatgt agaggacaag 60
tcattccacg ttttccaaa gtatttagac gcgttggaa aactttgtc cagagcaagg 120
ccgtcgaccg tttgacggat gtgttggata tttcgtagg gcaaggcct tttgggtggc 180
gttatatgac gaatttgatg gataaagaca agtcgagggt ggggtggagg agcgggagg 240
ttacgttgta gttggattcg tgaaagagac gggttgttt tggtgctttt ttggtaagt 300
ttgttgtctt ggaaaaatga aaatcgatca gagtggatga gcatagagga tgtgatggaa 360
caacattgga acatgtatgg ggaaaga 387

<210> 2833

<211> 385

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-G8

<400> 2833

gagcccacgc gtccgaattt ttttggttc cgtttcgcgt gtcttgagca gcagttcg 60
cgcaggcaga aaaccaagac actcgacgtg ccaaggcact aaaggagtat caaagagtag 120
tctcccgacca tagagatatt gaaaatagag tgcgaaggct tcggcgagga agtgaaaact 180
ctcaagcaac aatttgagaa gacggaagat gacttgaaag cttggcagag tggcgccgc 240
ggtagtgggg aagttcttcg agctattgtat ccggagaaat tttagtgcggaa ggcttcaagt 300
ggtccacgtt atgtcgctgg atgttagaaac aagatcgata gagataagct cgtacaggga 360

gcacgtgtct ctttggatata gacta

385

<210> 2834
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-H1

<400> 2834

agaaaaatatg atacgacgaa aatgccagg aganaaaagt gcaacagaaa gaaaacgttg 60
agattgcaaa agtttctttt cgatatattac agtctctaca ttttactcag cgagactcta 120
caagggttgcac ctaaaaaaaaat attatattcg agtttcccaa gcataaggat actaggcgtc 180
aatgactacg tattcaaatg cttcttccaa atttctgtaa ataacttagga ggcgttgct 240
gcaggggatg ggacgagggtg actttgaata acgttttca acgttggatt atttgccaca 300
acttcggtaa cgttattgtat gagcaccttg atagaaaatg gagataatac aaagcgctt 360
ttcaataaaaa acataacttgg tctg 384

<210> 2835
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H10

<400> 2835

gaattaaagg gtcgacgcac gcgtcagcgg acacgtggc ggacgcgtgg gcggacgcgt 60
gggttcctag tggtatgttt acagaggaga ttgatcgata tactggtttc gagcaaggag 120
ctatcaattt aacttggagt tatgatgcct ttgttactgc ggtttggtca agagaagatg 180
ttcacaaagtt gtttctaaa tattgtgaac ctccttctcc acctctaccc agtatgccag 240
gacctggtgg tttatcttct ccataataag aggcaattgt gcactttgga tattttgtg 300
gttcacataa agacaagctt tattaagaag c 331

<210> 2836
<211> 223
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-054-Q1-E2-H11
<400> 2836

cgtcagaaaa aaaataagca gaacacataa gcagacacaa taagttccta ataataagtt 60
tacaaaaaga aattgatcaa aataaatgag tttcaaacaa agaaaaaggg ggtctacctt 120
aaagtttcta agctttgtt acctcgagtt tggtaatat aactctgttg aggtgtcccc 180
aactttcaat tctggggccc ctttttaaa tcttcctact ggg 223

<210> 2837
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H12
<400> 2837

gcgtcaggca ttaacaatca tgggagacac taagcttaag gacggtgcta gtgctgctct 60
ttggacttgc cgccattttc tctatacagt tgtgttagca ttttcagcaa caataattgg 120
acgtgatgga aagaaggcag ataacatatg gaacgatgcc cttagattatc atggaaaagt 180
ggtaacttt tgtcatatt cggcttcgtc tttttttaga agtggcgacc atggcgatg 240
taaatatgtg atggcttgg cttctatcag cttgatttttgc ttcttctatc gttgggtggc 300
ctccattgtc gacgcattgt atccaattct tacaaagttc tggtttgtgg agcttggat 360
caacatattc cttactatgt ggtggatggt tggtaattt gttgtgactg c 411

<210> 2838
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H2
<400> 2838

gggtcgacct aaggccggt gcgaaagagg acgtggacg gcattgtgga agagcgtttt 60
gggtcctgga gagctcatgt ggagaacaac gattgtatcc ttgttaagaa gaaaacctag 120
tcaggggtta ttgaagagaa gtttgcga tcaagttgct caaggctcag aaaaactaaa 180

acttgggttt gcgagcacct acacatgccc ttcgaaaggga tgctctcgta gatatggtag 240
tgttcccaagc aggttagtggg agggtggggg tagttcggtc aacatgtgcc tacagttgtc 300
caactgaaac ctggtgtggt gactgtcgta gaagatggca aggaggacaa atattttgtg 360
agtagtggat ttgcctttgt taccaaagaa cgaacagata ttttg 405

<210> 2839

<211> 399

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H3

<400> 2839

agacttggta aaataaaagca aggagatcca ctcaatttgg agactatggt gggagctcaa 60
gtatctactg aacagatgga taagattctt cactatgtgc aattggaaa gaaggaaggt 120
gctcagtgtta ttgttggacg aagtggaaag aaagctattt gaggtgattt agaaggtggc 180
tattacattt aaccgacgat attcaaggga gataacaaga tgagaatattt ccaagaagag 240
atatgtgggc gagttctgag tgtcacgact ttccgtacag aagaagaagc catccaaattt 300
gccaacgata cttcgttatgg tttaggtgct ggtctgtgga ctcgagatatt tatgaaagct 360
tatcgcgtat ctgcgagcaat caaggctggt cgtttttgg 399

<210> 2840

<211> 283

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H4

<400> 2840

cgcacgcgtc cgccccacacg tccgccttcc tacaatcaat attcttcttc gtacggttcc 60
tctagctatc gtctcttaac tgcagacgaa accaacttg tgagcagagg aggttatgca 120
ccaaacaaacc aatgtattct agttcctatc caatgctgca ctgattgcaa acaatggtac 180
gccgcatttggaa gttcctaaat actgatacag tgctcggata gaaagaaaca gatatcaacg 240
gatgtttgtt tctgttgacg tgaataaaac ttgtgttcat aac 283

<210> 2841

<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-054-Q1-E2-H5

<400> 2841

agcccacgca tccgcccacg cgtccgatcg ctataggaaa gtgagcaata cagtcttcaa 60
ggcaacagct ttaacgttgt cgactgctgc agtaattgga aacctataca tattcgcaaa 120
cttgctcagc atagttcct acagaagttc aaagaaggag ctgacggaag ccagtagtac 180
tcagggaaaac tgagaaacac aagttgtctt cacgtctgga ggtatggaaag atgagcggaa 240
actaggctgg gggctgttc cttgtagaag ctctgggttt ttgagaactt gcaattgttt 300
tgttcttgc agtaaagaaa ttgtcttcgt tttctaaaaa aaaaaaaaaa aaaaaaaagaa 360
aaaccgacaa acgagacgca ac 382

<210> 2842
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-054-Q1-E2-H8

<400> 2842

agcggacgca tgggggaaag gtgaggcggg aggttggtaa gagagtactc attgtgctt 60
gcctgaagga ggatgagcac tatctcggtt tctctcaaga aaccggata tgattcctt 120
ctagggtttgc ttccatatac aggtattggt ttgtcaccaa ggaagctatt caatacgtgt 180
tgtgctcgac cgaggagagc ttggacctct ccaaccacca tagagtgtat cgagacagc 240
gtcgaggagt gggtcgtt taaagtattt cgttgtggag aagaacatat atttctaggc 300
cctatcaaca gcttaactgg ttccaaggca ctgcctatcg agatanaaag ccaactggat 360
gccgacttgt tgcgttctgc actcggattc tatcgcaagc aaag 404

<210> 2843
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A10

<400> 2843
cacgcgtcag gtaggtgtgc tcagtcagaa ctgcttctca gttagttacg caatatgcct 60
agtctataagg aacaaaataa aggaattaaa atatcagctg acggttacgc actaaagttg 120
agcggttattc gggtggacgt agacggcagt ttggtcacta tggtgacgc agacgacctc 180
agagccctca tgTTtaagga aagcctcaag gaaaagtcaa agctgcata cccaaaattt 240
ttcaaaaagct attatgagga gaataaggac tacttttatt atatgactca tacggagaaa 300
aaaatgtttc cttctctgga agttgcacga aaatacgcta ctctggggaaactcgaaa 360
ctgcagaaat atttggacaa agtcatttag cacgaacacg catactaagg gaaccaacg 419

<210> 2844
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A12

<400> 2844
agcccacgcg tccgccccacg cgtccgattt cattccgtgt ttttggtacc atttggtaa 60
gagattcaag taaggaattt gggatttcgt tttatgacac tttggttatg tggtcggta 120
tcagaactta gcaactggct tctcgatgtt tcactttacg aattttgctg gccttcgata 180
ataatcatct ctctaggatt tggttgtgc cataccagat atgagttga atggtagct 240
ggattttttt atggactcat gttcaggtg gtcgctataa aggataaaaaa tgtcataaat 300
gcaatccagt ccactgtatc acaaaccctt gttaaatgt ttacatttt atgtctggta 360
acttttattt gtggtagttt gactttgcaa ataggtttc actatttgtt tg 412

<210> 2845
<211> 434
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A2

<400> 2845
agcccacgcg tccggacaaa aatagataga cagaacaaga ctgttgatgt cagagattt 60
gagaaaaata cgagctacca ggagaaatat gattatcttc tccttcacc agtgctgaa 120

cctattcgtc cgaagctgga aggaatcgat cttagatggcg tttactccgt aagagacata 180
cctgatgctt cgcatattaa agaatggatt gccaaaata atgctaaaag tgcagttgtt 240
gttggaggta gctttattgg tttagaaatg gctgaaaact tatctttt aaatttaag 300
gtccatgtag tagaagctct ttctcatttg atgcctgcaa tggatcccga aatgttgct 360
ccactataca gaaagatgga agagcatggt gtggacataa ttttcatga tggattgaaa 420
agtatagtga agga 434

<210> 2846
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A8

<400> 2846

agccccacgacg tccgcccacg cgtccgaaac acaagacaac aatgtctcggtt cccaaatgttt 60
tctttgatat tgctatcggt ggacaacctg caggaaggat tgtattcgag ttgttctccg 120
atgtcggtcc taaaaccgacg gaaaattcc gtgcctgtt taccggtagg aaagggtttg 180
ggtacaaaga ctccaagttt cataggatca ttccccagtt catgtgccaa ggtggagact 240
ttacacgacgg cgatggaaacc ggtggcaaga gtatttacgg caccaagttt gaggatgaaa 300
acttcaagttt gaagcattcg gagccctttt tattgtccat ggccaatgcc ggaacgaata 360
ccaaccgaag tcagtttttc attacggtag tgaagacacc ttgggttggat gggaaagcatg 420
tggtgt 426

<210> 2847
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-A9

<400> 2847

acaacatcac attgaaacac ttcgaggaca cgaacaagaa gtttgtgggt taaaaatggaa 60
cgtcgatgga actcagttgg cttctggagg aaacgataat ttgttcatgg tttggataa 120
tcttcactcc agtcaaccaa aatatcggtt agatcagcat cttgcagctg taaaagccat 180

tgcttggtgt ccttggcaat ctcatttact tgcaagtgggt ggaggaacag cagatagaac 240
gatcaagttt tggaaatacta caactggctc ctgtttacag tccatcgata caaaaagtca 300
agtatgtgcc ttgctctgga atagacatga t 331

<210> 2848
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-B1
<400> 2848

agcccaagcg tccgcccacg cgtccggtca agtggtacag tcggaacaag acctgaaaag 60
ctgtttggaa cttagaaagc taatattcgt tcaagaacaa ggagtttaggg aagatagaga 120
gcaagatgaa tacgatcgag tggattcaac cgttcaaagt ttgggtccca gatggaaagt 180
taaacacttc ataaccttgtt tagttaacca agtgggtgca actggtagag ctcgtcgtaa 240
ttcgatgttt ggaataaaagt tagaaagaat tgctgttcga aaagaagaac gtataaagca 300
cattggcgaa acactgcttc aatttatgtt gagagaaata cagaagaaaa atgcggctat 360
taatttgcac tcgcagaacc ctgtggttac gtttatgag agtttggct tttcaact 418

<210> 2849
<211> 115
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-B3
<400> 2849

caggtatcac cctaagctac ttgatcttat gctgtccaag cgaagtaatg ctgaaccaat 60
atctgtggca aattatttgc aagatatcgc ataaagctt agatgccact caatc 115

<210> 2850
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-055-Q1-E1-C10

<400> 2850
ccacgcgtca gtcaggaagc gatgaaagtg gaaaatttat gtcaaggta tatccgctgg 60
tgtgcctttt ggtaacgctt ggtggcac ac caaaaccaga gtatgtcaag tagtggaaa 120
aaaagtattc tcctaccgaa ccatctcaat gtggagaaac caccctgttg tccatcggtt 180
aaaacgatata gctccactg gattgctcga aatactgcac gcgttaggtga actggggat 240
gtaccggatg agttgatgta caaagtttgt tgtttatgtg gagcaaaaga cttggcaaga 300
ctggaagaca acaaccctgg aagagaagca gtgtntgaag cactgtggc agcgttgtt 360
aagcgagatt ttagtangga agaaggaaat gaaagcccat cacaacacca ccatgtggca 420
agt 423

<210> 2851
<211> 141
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-C3

<400> 2851
catcatgcat tgttagagttt gcatgtgcta tatcagtaac aatcgactat agatacttaa 60
agtcatctgc acacgtggtt atcggatgcc atggaaggcg cagagtccac tgacgtgcat 120
ttgattcatg gatcgacgtt a 141

<210> 2852
<211> 287
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-C5

<400> 2852
cggggcgacc caagcgtcag aacacgcgtc cgcccaagcg tccgcccag cgtccggata 60
attttgtaaa taaagtgcgtat ttttcctttt caaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa 120
aaaaaaaaaaag aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaggg aggaagatca 180
aaaggaataa aagatttaggt aagaaagtaa gaaaaagtga aggtcttcaa agaggttact 240
gaaaggaaat taacgggcgg tagttaaaaaa aagtcgggag gggaaaa 287

<210> 2853
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-055-Q1-E1-D11

<400> 2853

acgcgtcagc ataagcaaat cattaaccgg aggaaaagaa acaaactgga attcccctat 60
tatcggcgag cgaagcggga agagccacta tgagaatcct cctttcctt tgtaaaaga 120
ggagatgtat ttgaaaaaaag acaagaaata tctgcagcaa gaaaagagca aatttcctgg 180
aatggaatat catggagggt gagaatcneg tttatctctt ttcttgat tcaagctgcg 240
ttacgatatt ttttgtgtg gagtcgggtt gtttgttagt acagcctaa ttttgtgggt 300
gttataaaatc atccaaggct aaatacgtaa agagagaccc atagcgaaca agaacatgag 360
gaagaaagag gcaaatacgg gaaagcagta aaagaagaaa gagaaggaa aaaactgag 419

<210> 2854
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-D8

<400> 2854

acccacgcgt ccacctacgt ctctgcagtt gagtggaaagt gcgttgtatt tggcaatgtt 60
tcaacggta ctgacgtact tgagtgc当地 tattctcaca agacattgtt caaagagtgc 120
ggaagtgaca tttaagttt tacacgatca cttaacttt tcttgagca tgaatggag 180
aaataacgtg tatgctgaat ctgttgtgt gtgaatttga agaatgacat ttcgcttctg 240
ctgatgtaat ataatttaca tggtaagt ttgtatgtt tcatgtacag aaatctcgt 300
atcaacttac gtcatttctc gtacgatctt ggtataggaa tacca 345

<210> 2855
<211> 178
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E1

<400> 2855

acgcgtcagg gaaaagaagaa ggtaaaggaa gagaaggaag aagcagagag ggactatgag 60
cgaaaatgtg gatagtcgag agggaaaaag cccagaagcc aagataaagt atcaaagtta 120
agaaaaggaaagg aaaaggagaa gaagagaggg taagctaaa agcaacaaac cagagaag 178

<210> 2856

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E11

<400> 2856

aggacgggtt gtttggtagt acagcctaa ttttgggt gttataaattc atccaaggct 60
aaatacgtaa accgagaacc ttacctctcc aagaatgtgt tgacggctg tcgaaagaac 120
gtgctgtgaa gtgagagaac gtacgagaaa gccaaatgtg gaaaagaagg caagtagagg 180
gcggccccag aaaggagagg gcgttaagacg tgatacagag taagaagaaa agagaagaga 240
accagaaaag aagttaaaaa aagattaaaa gactaaaaga agtacggaat tcacgaagaa 300
cgagcctgaa tgaaggagga atcccaagta atcgaagaag aaaaagcttc ggtgaaagcg 360
tgaacggatt ttgtacacac tgccgtcaa gttctggaag tgtgc 405

<210> 2857

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E6

<400> 2857

agcccacgcg tccgcccacg cgtccgcgtca gtacttgtct gaattctgca gaaggaaatg 60
ttacggttga cttgtcgccg cagtgttagt tgaaggatat atttcattt aagcttctcg 120
acaataactt taagttggcg tgtttaatg atgcctgtt ttttagttt ccaggcttat 180
cctttgttat tactggtaat cgtatattct gtagacgctc ggacttgaat gaaacggaag 240
cattggagtc ctgctttcg tttatgaaga tatgccccac gtacaagtgc ttggagattc 300
ttttggaagg cgagcaaatt tatgtagaag aactcgtgcc tattgtatcc cgtttcgttg 360

aagaacttcc tcactttctt tttgacaatt ggaaaaccgt aagttacggc tctccctcg 420

agaagg 426

<210> 2858

<211> 155

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-E8

<400> 2858

cgtcagaaaa ttcatccatc gttgctca ctgttgcat atatgacatg tcgtcgtag 60

cgtggtaaac gtttatgata acgacgtgca taccgtcata ccatagtctt gggagacagt 120

atccacggaa taatcaaatac agctatccgt cgttt 155

<210> 2859

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F12

<400> 2859

cgcgtcagca gacgtacaaa agtttggca caaaaactgc aaaaccacaa acgctcgcta 60

cttgttattaa catgccttcg acgaatgcc aaaaaaaaaa tcccgatacg cgttcggta 120

tgggagaccc caaccaacct ctaggtattt tagatactgc caagtcggaa gagttttccc 180

aaggtcctct ttctttattt gtggattgtg taaaagatgg tactccagtg ttgatcaatg 240

tgaggaataa caaaaagttt ctagggaaat taaaggcttt tgaccgtcac ttatatatga 300

ttctagaaaaa tgtcaaagag atatggacag agataccaaa gagaaaaag gctagaccag 360

tcaacaagga tagattttt ccgaaaatgt ttttacgtgg tgactcggt 411

<210> 2860

<211> 347

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F5

<400> 2860

agagtgcatt ctcaaggaaa gatacaaaca tatgttgcca acagagaatt actgctggat 60
atgtgcattcc actcaaaacc tgggttagat gtaaaccaaa agaaacaacg gttattgtca 120
ttcttagcta gtcaggagcc ttgttatctg tggagaagaag aagatcgtca tcaagaacca 180
caaatacgata gtttatatat ctctagtgct gggtacaagg cgatcatttt aagggacaag 240
atgttggg ttcacaattt gtcccttgat ggagaacaac ggtgggtga tggatgagaa 300
taatagttt gcattttca tgtcttccag ttttatatt atgtttt 347

<210> 2861
<211> 274
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F7

<400> 2861

aacagtagct tagacagtaa catatgcttc tagttcagc gaacgggtga gtaaagaagt 60
gtgaaagagt ggcagaccat gaacgcacag accaatgtta gaaatggta gagtaaaaac 120
caatcatgga tttatagcggaatccgata cgaaggaagc cgtaatggaa ctgaaaagtt 180
gtccaaacaa ggaatttcag cagtgggtat tttggccaa tgtacaggaa agtatgaccc 240
agtgttgaag agtggagtaa gcagaaaggg aagt 274

<210> 2862
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-F8

<400> 2862

aggggatgtc gtcgcaaccc gtcttagtgc tttgcactt ccaaatgtat attatgggtt 60
tcgttcccccc tgagaagaag gaagccgtca ttaaaggagc ttgcacactt ttgaactttg 120
cccggtgagaa gaagatccct gtagttcatg tgggggtacg ttttagaccc ggacacccctg 180
aagtttcgaa acgaaacaag atgcttctc ttgtttctc cagaggcccc atccttgtgg 240
aaggtaactcc tggaagtgcac cacgtacg agttgaaacc aattgaaggt gaattcagtg 300
ttacaaaaag aagagttggg gcacattata ataccgatct tacaaccatt cttagccgct 360

tggggcgcta cccacacctgat tttgggaggt gtttctacaa gcggagttat tctgtcgacc 420
gttcgttg 428

<210> 2863
<211> 439
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G1

<400> 2863

acgcgtccgc ccaagcgtcc ggtgcaacga tggagaaaagt ggcgaaggaa aaccgcttga 60
agaggtgcaa acaggaaac ttttgcgtt attatctgaa gaactttgta aagtatgtat 120
actggaaaaa gttaccgtga agagtttagg ccaacaagaa ttggcaactt tttgttcgt 180
caactccgcc ttggtctgca aaatagacct tgaaagtcat tctagagcga tggttcgcgg 240
tattttcaga ctcttgcgtt ggaaatattt ctgtaacaag tttggaaaaa ggaaaacaag 300
tatttacttg gttgtattct ctgagaatgg atttttgcg gggaaacgcac ttgtcggag 360
accaagttcc aatggtccac ggatcactgt gcaacaaata ttgattgcta tacgttcccc 420
atttgctggg ttgttagat 439

<210> 2864
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G11

<400> 2864

ccacgcgtca gtagatgaga cgcttgaacg aaaactacgg agatagacat accaacaaaa 60
catcggcgac ttgttccgtc gttccaagaa attgtgccgc tgtggtttc aagctatttc 120
aaaaactttg gggcatcttt tcaaaagcct ttgtccaatc gcccgataac attcggttcca 180
tagctatctg ttccagttgg tcaatccaac gacccagcga catggcacgg tgctgataaa 240
agtacgttgg actcaaataa ataaccacca aaaaaaaaaa aaaagaacta aaaagaaaac 300
aatcaaaaaa aattcggagg aaaaaccaca agatcaaac aaaaaataca gatgattaag 360
acatcaaaca aacttctata attctaaaaa aaaagggggg gccc 404

<210> 2865
<211> 458
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G4

<400> 2865

cggtcaggaa tatcgggccc agccacgcgt caacccaagc gtccgaaccc gtgtagtcta 60
tgcagtaaaa gaaagaatga gtaagaaaaa agggagtcat tccaccaggg gagtaaaggc 120
gcaagaaaaga aacccaaagc aattgacggg aatcgaaaaa aggggtggat cacgtaaatt 180
aatccgatat aaaccgagaa ccttacctct ccaagaaggt gttgcacggc tgtcgaaaga 240
acgtgctgtg aagtgagaga acgtacgaga aagccaagtg aggaaaaagaa ggcaagtaga 300
gggcggcccg agaaaaggaga gggcgtata cgtgatacag agtaggaaga aaaactttta 360
gcaaatacac gaacaatgcc aaaaaagaaa aacctctcgt cgtaaagaaa agtgtacaga 420
atcttctatg gataaacgga ccaaggaaat atacttgg 458

<210> 2866
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G5

<400> 2866

agcccacgcg tccgtgtgtg gtgacttgga tgaaaactta tctctttgtt ccgtcttgg 60
cttgtcttgc tacaaaactt gcaagtggaa aacaagtgc agttgattca agttggaaaaa 120
gatgtggaca gttcaaggga aatcggttcc tcctccatgc tgctcctggc actcttaaca 180
aagcaaggtc caggtttct gttccatga aaaccgaagc ttggtaaag ttgataaaaaa 240
ctgagcaact aaagccggga gacttgaac ctttttcgt tgctggccag tctttgctag 300
tagtatgtga ctatgacggc caagtatact gttctgccaa cgtttgcata caatttggaa 360
caacaattgg atcaaggaac ggtatcttagt ggtaacttga tatgtgccca gcataagact 420
tc 422

<210> 2867
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-G9

<400> 2867

ccacgcgtca ggaaatttggaa tttgggttttg tgacaagtat aaagcaaaca gtgcacctgt 60
attattatcg tttttgttgt tggtgttaaca gcctgtgtct ctctaaagag tttcttgaaa 120
tgcagagagt tggattgggtt ggtgattcgg tcaccaagct tcacttgtta aggccgcagg 180
tctcgcaata tgcaagacctt tggaataatc ctgaaggaat atatgccttt gttcgacgtt 240
gaaaagattt gggctcccta cccggtagag aatggactaa tgatgagcta agattaaaat 300
cctttgacga ctgcacaag ctgggtggg tccttataaa ggaaagaaac gctttgttaa 360
ctgaaagaga ctgggtg 376

<210> 2868
<211> 97
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-H1

<400> 2868

acgcgtcagg agggataat gtcaaaataa aacagaatga tatgaccccg gaaagttttt 60
ctgaaaaaaaaaaa aaaaatccaa caaaaattcc atgcaaa 97

<210> 2869
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-H10

<400> 2869

acgcgtcagt gatgggtggaa gtagcgaaac aagagaagg aagtaaaagg taagaaagag 60
gaaaggtttca cgagagaagg aagttagaaag aagagagtgt aaggcggcgt cataatagaa 120
atccgaaagg agttagaagaa aagagagaga agaaagaaaa gaagagaaaa gccgtactga 180
agaccgacac agtactcga ggagaaagga gacccaaatt aaggtgagag aatggacgt 240

aaggaactag gcaaaaggat atggtatctg cggtagaaca tatgaaagaa catgaggaag 300
aaagacgcaa atacggaaa gcagtaaaag aagaagaga aacgaaaaaaaaa ctgagtatca 360
ggaagaaaaag agggagtaga tgaggacaga aagatcaagg aagtaagagt aagagaagga 420
gtaatg 426

<210> 2870

<211> 228

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LTB190-055-01-E1-H3

<400> 2870

agcggacgct tgggtttta tggaaagata taccgagtca tttattgaag aacttgacca 60
attttgcgtat tgtattctgc atgacaaacc tggccaggat acaggttggg atgaaagagc 120
tccagtcgtt attgcgttgg ctgcgaagaa aagttatatg gaaggacgatc ctgttcgcatt 180
agaagaagtg gattatagtt tgtcctagta aagtttgtat tatttttg 228

<210> 2871

<211> 427

<212> DNA

<213> : Cyanidium caldarium

<223> Clone ID: LIB190-055-Q1-E1-H5

<400> 2871

agacttggca aaagcaattg ataagagaat gtggccacat tcgcatacac ctcttcgaca 60
gttttcatct cagttacctg aagaagtact gaagcgaatt gaaagaaaaga cagatttgaa 120
aattgatcaa taccttagatt tatctccagc ggaatttagga gagttgttgc gaagtccaaa 180
agatggcaag acgattcatac gcctattaca tttattgcct agaatgaaat tggctgtcca 240
tgtacaacct attacgcgct cgactattcg catggaatttgc actttgactc ccgatttcct 300
tttcgattcc aaggtaatcg gagcaggaga acctttttgg atctgggtcg aagatcccga 360
tggagaaaaaa ctaatgcatacg tagaaccttt tttctgcgag cgagtttaag tcaagaggag 420
catacag 427

<210> 2872
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A1

<400> 2872

gagtgtgcgg cctgccaaat agtagagaag aaatcgatga aagtgaaagc gagtaaaaga 60
tgaggtatacg agaatggcgg tcctaactgt aaggatccaa aggtagcgaa gttaatagac 120
gtttgaaagg cgtccagtat gaaaggagaa acgagtgtag cactgtctag tcgtccaact 180
cagcgaaaca gcaataactg tgaaaatgca gttaaactagc agtaggacgg aaagaaccca 240
taattcttga cttagatacg ttagatcgaa gagaatca tgaagttagag gacgtgggt 300
aagagatgag agaccactgc atgaggataa agaatctaac tgagtaaaga aaat 354

<210> 2873
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A12

<400> 2873

agcccaagcg tccgcccacg cgtccgattt catcgattgt ggtgagtggtt gtggttccgt 60
ggcgtcgtcg tggggtgat tgggtttgtt gtgtgtgtgt aaggaaaccc gatgcaaaac 120
gtgcaaaaga aaattgtaga tctttatgtt cctagaaaat gtgctgcttc taaccgaatt 180
atcacggcaa aggatcacgc ttctgttcag ttaactgttag cacaagttaga tgcgcaagg 240
cgagtgacag gagaaacaac gacgttgct ttgagtgat ttattagaac caagggatta 300
tcggatgcag cggtcaacag gatatgtgaa gaaaaggac tgctcaacga ctttcattag 360
aacaactata aaacaacaat agcgaaaaat ttttggatgt 400

<210> 2874
<211> 379
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A3

<400> 2874

cccacgcgtc aggtttccg aagcattcag tctttatcgtaattgattttaactcttcc 60
atttgtctcc gtagtgacg attcgcaatg cagtcttgc atggaaatgc tgactacttgc 120
tagagaatat atcgctggac tgatgattcg taccaaacaacggaagcca aatccaaagg 180
agatttcgtc cgacagttgg aattggcagc gctcatgaag cactgtaata tgtcgattac 240
gcatcaacat ttggcattgc aagtagctat gaaatttagct tattctacga agaactatcc 300
tttatgcgtc gaaatttgcc gatcgattgt tggagttggc acccaatgaa gatatggaga 360
atactgccaa aaaagtgaa 379

<210> 2875
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A4

<400> 2875

atcgacggag cagaatattt aagaaatcat cccaacacct tcgatgtgat cataaccgat 60
tcttccgacc cagttggtcc agcagatgtc ttatttcaaa gacctttta tcaaagtctc 120
catgccccac tcaaaccgga tggcatttgc gcctgtcaag cagaaagtat gtggctacat 180
atggacctca tacgttcttt gatggaaact tgtcgaagta ttttgcttc cgtggcttat 240
gcttatacta tgattccttc ttatccagga ggacagattt gtttcgtat ttgctccaaa 300
tcggtagtgc atagcttgac gaaggctcta agagaaccaa atgcagttac aactcagtcg 360
ctgaaatattt actgtcctga gatacatgac gggcatttgc tattgccact cttgcaaaag 420
aga 423

<210> 2876
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A5

<400> 2876

accaataacta tttttcttc aaaatttact tcgacacaaa gcctgaacga ttccaagacg 60
gcgcagtaat cttgttctcc acggtagtgc gcctcgacag aaaaagacat gttgagctgg 120

ctacaaaaaa accacttgc agttgcaata ttacaagtgt caagaatgtt tactctttat 180
cgagtcacag tgcgtcttt cccctaattct ttcttttcg gtgtcgacga gtgcgttagac 240
atgtcgcttt ggtaacgcaa ccctctattt acactctacg tttcctgtgc agcgtcgaac 300
tacctaaaac gcaaaggcagc aaagtcccaa agtttcgact cttttgggtt tctcc 355

<210> 2877

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A6

<400> 2877

agggcgctgg tatggattta ttaaaggatg aagttgatat gtccaaaaga gatgcttcgg 60
gttaagtatat ttgcgccaaaa ggagaacttt cctagacgac gccacttgc tcaggtaata 120
tcaaaatgcc agatatttgg a ttgttcttga aagaccacat cagtgcgtgg tttaccgagc 180
aagtacgaat ggaaataact ctcaagtata ttgatcctac ttatatgatt cgaagtatac 240
ctgcaaatgc aagtgactgt ttgatgtgtg gtttattggc ccaatcagcc gtacatagtg 300
ccatggctgg tcgagggtga gatttctt cttttgggtt gtcacaggaa ttgttttgg 360
taattgctga cgatatggat tcttagtggtt ttacaattgg agttatcaat acccaata 418

<210> 2878

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A8

<400> 2878

acgatgacat ttctcaccaa aaaagatgtg gaacattgtt tcgatgtgat atggtttagc 60
atatttgcata tccaatattt ttgttatgt tcttgaatg ccttgaacca gatgtgtcga 120
acctacagcg tgtctgtgcc ggctggcgat gactttgaat ttccaaactc tccttgctta 180
agtgactggg atctcggtca ttttggcc catagcaacg aacctgtatt tcgtgtattt 240
cacaagtgc a tcatgtgctg ctttttagaa caaagaatac ttgtcttcg ggatggcctt 300
tgtatactga acaattccaa cagctgggtt ttgttggatg ctttgcgtga tatcacaaaa 360

tatgaaacgg acaaagaaaa cccgttcttc tagtttttg ccgttgtca agcgatgtg 420
aat 423

<210> 2879
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-A9

<400> 2879

agagtttgt aggagatagc aaaggatatg aaaatttttag tcagttaaa gcgtgtgtc 60
gactatgctg ttaaagttcg agtaaaaccg gacggttccg gaatagatct caacaatgtg 120
aagatgtcaa tgaacccgtt ttgtgaaata gctgtagaag aagcggtacg tttaaaagag 180
tcaaaaagttg catcagaagt tggtgttgct actgtggac cttctcaatc ttctgaacaa 240
atccgtactg cgtagctat gggtgctgac cgaggcatac atgtcaagt ggaacaggag 300
ttgccgcatt ccgtcggttc aagagctta aaggcattt tactaacga gacaccaagt 360
ctagtaatat tacgaaaaca agcgatagac gaccattgtt accagactgg tcaaattttg 420
gggcaac 427

<210> 2880
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B2

<400> 2880

accacgcgtc cggttggaaat atatttatcg gatggttaa aacaaaagaa atagccaaac 60
tcagtagtaa tgagccagga ggatgaggac aaggacaaac ttacgcttca cttaactat 120
tggattgacg catatgcagc agtacaagaa gtgatcacaa aacggttggc tgacatcatc 180
catttgcgtga gccgagaaaa gttcacgct cgccgtgggg gagaaagact agatgtgctg 240
ttgttggacc agcgacctca tccagcgact tgtaagtgc ccccaacga aaagagttt 300
aacgcttcaa cagattggcc tctttccacg aacctttac agcatttctc gtggagtgtt 360
attcacgaaa gcaaagaatc ggatttagaa gagttttgtt tatcaacgac 410

<210> 2881
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B3

<400> 2881

accacgcgtc agcgatgatt cgatgcggca caagacagtt gtgggtggcaa ctgcgcgc 60
gttatcatac aactactact gtccatagag tagcaggaga agaagaaaag gaatcggtcg 120
gtataaagcc caaacgtttt catcagcctc ttggagttt tccacaagga accaatctgg 180
aagaagttag agaaaaagtgg caaagtgacg ctatgaaact tatctcgaaa gtacctccga 240
tagtagtcga tggctatgtc atagcgtgtt atggaggcgg tggccattt ggacatccaa 300
tagaatatat tcgtttggaa gcaccttatac cttcaacttg caaatattgt ggtttgcgat 360
atatcaacaa agacactttt gaaaagtggaa aaaa 394

<210> 2882
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B7

<400> 2882

cccacgcgtc cgcaaacggg aggagcgctc cgttcctcct gctgcagcaa catggcaat 60
gacatgaaag ccgagttgtt atgacatgaa aattcggtaa agtcagaaat cgaattggaa 120
cgaatccctgg aagtctttt atgaacttca ctggacgaag accaggatgg cggtggcatt 180
ctctgcgttc catctgtact actttcagtc tcacagctgt ttaaactatac caaggaagat 240
ggatactggt caaacatttt cctttcagta gacattgcta cctttccaa tccaccatgc 300
tcaggaattt aatgcacatc gcccttattga tgtctatttag ctaatatctt tgaattgcag 360
cttaagcaat accttggaa tccatttgct agtttgacat tgctctaaa 409

<210> 2883
<211> 440
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-B8

<400> 2883

gggaataaaa ggtcgcaatg gaacagcaca acaactgaac agtcatgttt tttatcgtgt 60
ccaatattgt tgagcacacgc gttccacagag ttgggttgttc aagtttctta tcccgaaagt 120
atatacaaag tcctccgaag aaacgttgtc ctgttttagc gagtattttt caaagcttct 180
tccctgcgga gagcaacact tccaaagtag tgcaactgga agcttgcatac atttctcact 240
acgcacagca agctgtttt gtggacaaca tggctggaga agcacgaacc ttagagaatg 300
ttaaccttga aatactggag ggagagttt tggctgtcat cggtgagaat ggctccggaa 360
agagttcttt gtgaatatt ctggccggac tggacgtacc tcatcaaggg tatcccaaatt 420
ggtatggcaa gaagatcaag 440

<210> 2884
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C1

<400> 2884

accacgcgtc cgccccacgacg tccgcccacg cgtccggcgtc attccaagta gcgcgtggcga 60
aaagtgaacc ggggggtgata tacataggc acttaccgca tggttttac gaaaaccaac 120
taaaggcgctt tttctctcag tttggaaccg tgctgaaagt tcgagtgccca agaagcataa 180
aaacttatacg accaaagggt tatgcttttgc tcatgttcgc gaaccgagaa gttgccgaaa 240
ttgctttag agctatggac ggttatttca tgtataacaa aattttggc tggaaaaatgg 300
taccaccaga gaaagttcgc ccgaatatgt ttagaaagtt cgtgaagatt ccctggaaaga 360
agctagaaaaa gaaccgcgt gctttggcgc tcac 394

<210> 2885
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C2

<400> 2885

tggttggttg gttgcgccc tggagcattc gatgaacaaa gtattggAAC agctgttaggt 60
atagtttgt tgcaacatgg tgcacatatt cacttgaaaa aaggccaat gagccaaag 120
taaaaggata tcTTgttacg gattggaaag ggctgtgtat tgcgtgtgag ttttttGta 180
ctggTTgtta ctcacgtcac taaaggAAC tcgttagcaag gggTgtggcc ccgtcgCAGt 240
cttcaggttg gatcacaaga tttagctgaag ctTCacttat gttgagaaAC gatATgAAA 300
gtgatgaaaa gcaaccacct ctcgttcaag tcgatttggg aaaatATgtt gtagcaataa 360
ggcctatgga aaatgtata atgg 384

<210> 2886
<211> 283
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C3

<400> 2886

agtgattgga aagatagCCA aagaaAGCTA ccaactggAA gtagttggTC tgacaaggTA 60
gctcgTTctg tgccTAGttc tattgcacAA caacAAACGA attcggtacc tacggacAAA 120
agaaaggagt cagaacgagt ccattttCC attggattt gggactacat agatcagtct 180
ctggaaacAA aagagTCgaa gcctccAAA aaggagccta ctTCCTcgac aaagcattCC 240
gttGacAAat acgaatcgct agacaAGAAAC aagtccTTg gag 283

<210> 2887
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C5

<400> 2887

agagtgcagt gaagGAAGCA ggtgcttattg gtgacgAAat ttccaaTGCA aaaaatggAA 60
cctcagtgga acatgAAAGC ctTCCTgagg aggaACAAGC aactgtggat cctgacaAGA 120
tgagtaAGCG ctatAGAGCA tcctggTTA taactgctgt acttattGCA gctgAAACGG 180
cttCTTCTGG aatgttatct ctTCCCTCTG cggtacAAAC tctaggatAT gttcccGGAA 240
ctattCTCTT agtGTACTTT ggagctgtgg ctacttatac aggttacttg attcacaAGT 300

tctgtgagaa tcatacgagaa gtaagacatt acgacgaagc agctggatt gttcttggaa 360
gagtttggaaag agaagtccata tatgctggc aaattatcct ccttatttgt g 411

<210> 2888
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-C8

<400> 2888

accacgcgtc cgaaaaggag ggtcgacgag ctcagcttga agaacaaga acttgcgtgg 60
ggttggacgt tatttatgaa ctggactct attgacacag gaattaatgc tcctttgac 120
ccgtttgcag acgcctcacg tggagaggac gcagcagtaa ccaaaaatat agtgcattatt 180
cgcttgcaac aaagaaacgg ccgcaagtgc ttgacgacga ttcaagggt tgacacaaaa 240
ttggatttga ataaaattac aaaggccttc aaaaaggagt tttgttgc当地 cggttgtgtc 300
gttagacgacg cagaactggg aagagtcatc caactgcaag gagaccagac ggataaagtc 360
aaaaagtttc ctagttcagg agaaatttagc tgaaaaagac ctgatagagg tgcacggat 420
atgagttgt 428

<210> 2889
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D12

<400> 2889

agcgccccgg tgacaaggaa agataaatgg tcgtcaaaac agaaacctgt agttttcag 60
gtttccgcat ctaccccgga aaaggcactc gatttgcgc cggggatggc aaactcctca 120
tcttagtaa ccgcaagtgc aaatcctact ttcatatgcg taggagaccg gcagagttga 180
attggactca gttgtatcga agaatgcaca aaaaaggaca gcaagaggag acacagaagc 240
gacgtcgtac gcgcaaagtt gctgctgtac cggaaaccggc ggaaggcgc当地 tcgttggaaag 300
tgatcaaagc aaagagaacg caacgccccgg aagtccgaaa aactgccaaa gaagcagcgt 360
tgaaggaaat ttaaacaacg ccaagctgct gcccgtggaa aaagaaaagg tggaagagga 420

gatgcgac

428

<210> 2890
<211> 228
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D2

<400> 2890

gtgcttagaa atggccaaaa atcttgcac caactttcg gtctattgac tttcaaaatt 60
tgcaaccaggc gcaatgaatc gctgcggtca atgcaagctt cgaagcaaaa ccgctagagc 120
attggccagg agatcgtctt ttgcgttcgg gaaacgcttg atacagaaat cgagagaata 180
tccttgatgc caagtgaata aagcttatac caacaaaaaaaaa caactaag 228

<210> 2891
<211> 446
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D4

<400> 2891

accacgcgtc cggatcatca aatagaggat caaaaagaca cagaacgtcg acagtatttt 60
gcagttgaca agtatgagaa ctgtcaacta ttgttagactt catttttat tagccatacg 120
taggctccat caatatgttg atcaaagcaa gagggaaagta gtggttactg gagtcggcct 180
ggtgacacct ctgagcgttg gtacgagttac tagttggaat agactgattt ctggtgagtg 240
tgcagtggac agaattcgag cttttgatgc gtcaaggttt cctgtacaga ttgctgccga 300
cgttcctaga agcagttggg atggttggg tccgtataga agagtgaatt gtaaagtttt 360
gcacgatgag gagtattttg atgccacaag aatagtacgg ttttctgagg aagacaagag 420
acagatacca gagtttatac agtttg 446

<210> 2892
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D5

<400> 2892

acccacgcgt cgcggcacgc gtccggccac gcgtccgccc acgcgtccgc attaattcta 60
tatgttcggt ggagttttg tagccaactg ggagattga gaatattta caatagttt 120
gtgcagcatt tatccataca gcctctgga agtgtaagca ttgcgaagca aatgcctcat 180
ttcaaataata ttccaccatt caactctgca ataagtggag ttttagttc cgggaaggaa 240
ttatacttt tgaatgcttg gaagtcattc tacgataagt atttgcgcg agatggata 300
ttttcgctcg attaagacag tgattatgga cctagtataa ttattcgagt gactggaaat 360
tgcttatctt ctctgatga agagaactca tcttcagaac ttggggagtc ggaa 414

<210> 2893
<211> 142
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D6

<400> 2893

accacgcgtc cggtggaaga acatgaaagc acagaagaat gtaagaaatg gtttagatgg 60
aaaccataaa ggaagtaaaa gcggaatct gagaggagga aagccacatt ggaactgaga 120
aaaaggtaaa acaggagtgg ag 142

<210> 2894
<211> 200
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-D8

<400> 2894

agagagttgg ctggaaaagt gtggagagtc ggttttaggg gatataatag tcgtcctgat 60
gttgtcttga cattgttagc tgcgttcgaa agagcttga aaaaagggtgg ctatctgcag 120
tcgcagtgtat ttgttgcct ttcattgtct caaagttgtg ttggagtaag tcgcgagcca 180
taaaggtttg ttttataag 200

<210> 2895
<211> 305

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E3

<400> 2895

cggacgcgtg ggcggagcct tggtgacact gctatggctg ttccctgttag tccaaacgcta 60
tatccgcagt tggatgaaac tcctgcagac cgttcatttg tatttcaagg aggtgacagt 120
tattctgcaa aaggacagcc gtatccaatg gaaggactct attcttcata ctacggatca 180
ggcgatattc caaaaagcatc cttaacggtt gcagattatt atccgtcttc caatccctat 240
ttgttggcat cggctccttc gatcgattat acgttagattt attgtaaatt aacacaagtt 300
gtgtg 305

<210> 2896
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E4

<400> 2896

accacgcgtc agtgctaatac tttcgccgg ttatgacgaa atcaaattta cgccgcgtcg 60
ctatgctatt ctgtacagta acactgtttc tcattccgtg gaaatattcg aaaaaaaagtt 120
ttcttgagca aaagaacatc aagtgcgaaac cttagtgcgatt tattatcgcccatttagaa 180
ataggccatt tgaagagaag ttcataagag tctatttctc acgtatctt agccagttcc 240
aagagtactc ttatgaaatc atcttgcag aacaaattct ggatgactat cactttaaca 300
aacgattgct ttccaaacgca gctttcctt ctttggaaaaa tcgtttctat gactgctatt 360
gtttgcaaga cgctgataact gtgccactta ccaacgagtt gttataccgt tgtcct 416

<210> 2897
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E5

<400> 2897

gttgtgttag cattttcagc aacaataatt ggacttgatg gaaggaaggc agataaacata 60

tggAACGATG CCCTATATT A TCATGGAAAA GTGGTGAACT TTTGTGCATA TTGGCGTTCG 120
TCTGTTTG AAGGTGGCGA CCAATGGCGCA TGAAATATG TGATGGCTTT GGCTTCTATC 180
AGCTTGATT TAGTTTCTT TCTTGGTTG GCCTCCCTTG TCACGCATT GTATCCAATT 240
CTTACAAAGT TCTGGTTGT GGAGCTTGGT ATCAACATAT TCCTTACTAT GTGGTGGTTG 300
GTTGGTGCAA TTGTGGTGAC TGCAAAGCGA CCTTCTAGTG TTGTTATGGA TGCGCTTCAC 360
ATAACGAAAG ATATCAATT C AATCGAAGGC CTTCATGGA TCAACTTGC TTTACGCTA 420
TTCCTTGTG G 431

<210> 2898
<211> 311
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E6
<400> 2898

AGTCGGAATC GATTGCGTTT GGAGGGAGAGA GAGAGAGAGA CGACCGAGTC TTTTTGCGA 60
CAGTGAGTAT CATGGTGACG AAAACAACCA AAAATATGGT TCAAGTATT GGAAGAAAGA 120
AAACTGCGGT TGCGGTAGCG ACGGTTACTG GTTCGGAAA AGGTCTCATC CGAGTCACG 180
GCGTTCCCTT GGAGTTGGTA CAACCGAAA TTTGCGCAT CAAAGTTTT GAACCCATAC 240
TTATTCTTGG TCAAGACAAG TTTGCGGACT TGGATATTCC GTTAAAGGTC AAAAGTGGTG 300
GACACACCAA C 311

<210> 2899
<211> 445
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E7
<400> 2899

ACGGACGTGT GGGGTAAGAA ATGGTTAGAG TAAAAGGACT AGAAGAGGTA CGGAATTAC 60
GAGGAAGGAG CGTGAAGGAA GGAGGAATCC CAAGTAATCG AGGAAGAAAA AGCTTCGGTG 120
AAAGCGTGAA CGGATTTGT ACACACTGCC CGTCAAGTTC TGGAAAGTGTG CTTAGGAATAA 180
GCAGGAGAAG TAGAAGAGAG TAGGAAAAGG AAGTAAAAGG AGGAAATGAA GGAAAGTTAT 240

ggcaaaaaca cgtgccagca gcagcgtaa aacgtgtga gcaagcgtag agcagaagaa 300
ctgggtgtaa aggtcgagta gtagagtaag tgtaaaaggg aaaggaaagg agagaaagag 360
gaaaggatg aaatgcagag atctctagag aaaggcaaga aagaccagaa aggaagacac 420
agtaaatgac agcacagaag aatgt 445

<210> 2900

<211> 403

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-E8

<400> 2900

agcctcctcc tcctcctcct cctcctcaat cttctatatac aacgaccatt actggaaaag 60
ctattttagt ttatgtttct gcgcatttag aagaaggaga tcgcgtattg aatgctattc 120
gaaagcatac agttcctagt ggtatgttta cagaggagat tgatcgatat actggttcg 180
agcaaggagc tatcaattta acttggagtt atgatgcctt tgttactgcg gtttggcga 240
gagaagatgt tcacaagttg tttctaaat attgtgaacc tcottctcca tctctaccta 300
gtatgccagg acctgggtgtt ttatcttc catagtaaga ggcacttgcg cactttggat 360
attttgtgg ttcataaaaa gacaagctt attaaaatac cac 403

<210> 2901

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F2

<400> 2901

agccgttaatt ggttagcaaatt tggaaatatac aagaaagggtt gtttcattca cacagagtgt 60
agctctaata tggacttgaa cccagagatg agtttcgtt tttccgcctg gttctcgact 120
cctgttgta cgacaacttg agtagcttc tctcctttg tcaaagcagt cttctgttc 180
ttcttgcgtc cagtcatttgc ttgcgttta gcctgcttga tttgtttttt aaaaagttac 240
agagtatgtt atccgccccctt atttgttgatg ttcccttgaa caaagaata cgtttttaaa 300
gcaagacaag gaagcctttg atgggcttga agaaaatttttata tatgcgtgc atgcacac 360

aaacgccccca aatgaacgtc cttgcacaag agagatgg

398

<210> 2902

<211> 394

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F5

<400> 2902

gaggaacaat gcacctcata ctgctgggtt ccagtacaga cctatgaaac ttatcaatgt 60

tctcaagaga agaagaagga gtacagctat ccttgtcaaa cttatgagca ggtttcaact 120

acttaccagt gtggtcagta cgagtcccaa caagttact accaatgccaa aaagtataag 180

.gaggttactc agcaagaatg ccagtacgtc caagagtcgt attgtgtcga gtatgaagaa 240

tgtcagcaag ttacccagga agtttctcct tcagaaatttgc tctactacgg tgaatcttct 300

tcttagcagta cttacgacta cttagaacact tgtgaaatgc ccaaagtcgc aaagtacagt 360

cgtctttttt gaagaaactg ttacttttg tccc 394

<210> 2903

<211> 331

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-F8

<400> 2903

acgaagaatc agatgttgca aagaaaattc tacaaataac aggtggaaag ggagcagcgg 60

cagtagtgga tgccgttagga ggagagatcg gtacagcctg ttgttcagct cttgcaaagg 120

gaggactatt tcaaggattt ggattacaga gcccgtttcc cattcaagtc agtaacagcg 180

accttatttt caaagatatt gtgatttagag gtttctgggtt ggcattgtgg tttcctaaac 240

aatcacccca tgcgttcaa gaagtttcg atatgttttag gaagaaaagaa cttgttccac 300

atattcagaa gatatttcct cttgaagact a 331

<210> 2904

<211> 189

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-G1

<400> 2904

aggacgcgtg agtggcaatt attgaaacaa gaggagcggg ctttggaaatc caaatgaaac 60
aaaaccgtat acaaacgtat tttatactac ttcttttaggt tgccaatgcc atggattatg 120
tcgtttgtta ataccgtct tttcttctta gtttggcg agacaaccag gaattatctc 180
cagtcgacg 189

<210> 2905

<211> 456

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-G8

<400> 2905

attccgggc ccgaacacgc gtccatgttg acacaagaaa atgcctaaga aagctgttgg 60
tattgacttg ggaacaacctt actcttgtgt aggagtatgg atgaacgaaa gagttgaaat 120
aattcctaatt gaccagggga acaggacgac tccttcctat gtggcttca ctgacgagga 180
gcgcctaatt ggagacgcag ccaagaacca gttgccttg aaccctcaaa atactgtatt 240
tgacgcaaag cgccattattt gtcgaaagtt ttctgtatcct tcggtgcaag cagatatgaa 300
acattggccc ttcaaagtaa ttgccaagga tggagataaa ccccatatac aagtaaccta 360
taaaggagag acaaagactt ttgcccctga agagatttct gcaatggttc tgcagaagat 420
gaaggaaaca gcgaaagcgt atcttggttc tgctgt 456

<210> 2906

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-056-Q1-E1-H12

<400> 2906

acgcgtcaga atttggaaacg cgtgttttgtt ttttactttt gtacttgatt ctgtaaaac 60
atgtctgacg atattgtgc ctgggttattt gacaatggct cgggtatgggt gaaaggcagga 120
gttgcagggg acgatgctcc tcgttccgtc ttcccttcca tcgttaggtcg accaagacac 180

caagctatta tggttggtat gggacaaaag gaaagttatg tgggttatga ggctcagtct 240
cgaagggtta tactctcttt aaaataccca atagaacacg gtattgtcac taattggat 300
gatatggaaa agatatggca ccatacttgc tacaatgaac ttcgaattgc acctgaagag 360
catccagtc ttttgaacga aacccctct caatccaaag gcaaacaggg agaaaatgac 420
tcagatcatg 430

<210> 2907
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-A10

<400> 2907

cgacccaagc gtcagggaga ttaaggctga gaaggagcag tagttcgctt ccggagcctg 60
aaacaaacac tcataatatac atatacatat attttctata gatatagcta ttcttcaaata 120
ggtttccaaa aagacgaaaa aatccactga gacagtctct tcaagattgg ctctcgttat 180
gaaaagcgga aagaccacgt tgggcttgaa aagtacgttgc aagagccttc gtcagggaaa 240
aacaaaactc gtggtcttgg caaataactg tcctccttgc tgcgcgtcac agattgaata 300
ttactgtcta ctcgccaagt gcaacgtaca ccactttcaa gggataaca tagaactagg 360
aaccgcttgt tgaaaatact tccgttgtgg ctgttagga attttggacc ctggtgactc 420
tgatattctc aag 433

<210> 2908
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-057-Q1-E1-A12

<400> 2908

cgacccaagc gtaagccccac gcgtccgtct gcctcttctg ttgttagaagg aggggaccat 60
ggagcgtgtta aatatgtcat ggcgttgtggcg tctataagtt tgattctagt ctttttcttg 120
tggctttta cattttaga tgcgttgtat cctattctta ccaagtttg gtttattgaa 180

ttgggtatca acgtgttca aacaatgtgg tggttggttg gagcaattgt tgtatctgca 240
aaaaggccta caagctctgt actanacgct ttaaacatta ctaaggatat taatgctatt 300
gaagggtccat cttggatcaa ctgcctt agcctattcc tttgtggaat tgcaatagca 360
gatggtttgt tggttggttc aagaagtgca tgctcgaaaa accataatag tggaaatagt 420
aataatgc 428

<210> 2909
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-A5

<400> 2909

ctaaatgcga ggattgtcat gaagcagtgt atatggccga gagaagtgac cgttggatgg 60
gagcgcggca gatcacatgc gggtgggttc gtgttcagc gtggagagtg gaacttagcc 120
tcgggaatta cacactgtta gatggagttc tcggttgcag gccgcactt cagggagcag 180
ttcgttctgc tgAACGCTAG CGAGCACCGG ACAGGAGCGG GGGAGCGTAT CGAGGAAGCT 240
tcaacgaagg ggaactggac aggggtttgc gtcacaaaca agtgggggtgg tatcatctca 300
aactgttaggt aatcccacg ctaacgatgg tatggagag tcatcgaatg ctgctgtttt 360
acaaaactagt aacaacgaca atggaaaaga aacta 395

<210> 2910
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-A9

<400> 2910

gacccaagcg taagatacgc agcgattcca tggtaaaaga gggcacacgt atattgtccg 60
atctcaagtt tcaggtgctt caagatggaa aacctcaggt gataacttcg gatcaagtat 120
tcggaggaaa gaaagtacta ttgtttgggt tacctggc ctttactcca acctgctcta 180
ggcagcacct tccaggcttt ggacagaacg ttgatgaaat caaatcgaaa ggagtagata 240
cagtcgcttgc tttagctgtc aatgaccctt ttgtattaca tcagtggca gagtcacagg 300

gagtggcagg aaaaattccc atgttatcac atgggttgtgc gcaatctgtc aagaaacttg 360
gactggatat cgataccggt gacc 384

<210> 2911
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-B10

<400> 2911

agcggacgcg tggatggag tatatggctg tgattgttgc cgttgggg agaccatggt 60
tagcgccacc ctcagtagta tgtctagagc cagtttatgg ctcacaagggt tcttttgtt 120
cacagtcatt ctgcgccttt ctatcgccat agatggagtg atggaaaaaa agggcgacaa 180
tgtttggaat acaacccttt tatacaatgg gaaagtcttc gactttgcg catataaagc 240
cagtgcgatg aaggcgatag agtataactt tatacgaaac ccgcctactt gcattgtatgt 300
catcgcccta gcgtcgacga gcttcatcgt ctatttatc ctgtgggtgc ttaccattgt 360
ggacgtcttt taccggttcc tgaacaaata ctggccggga gagttgttta ccaatat 417

<210> 2912
<211> 74
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C1

<400> 2912

ttacaagagc atgtacgagt gtaggaaata tttaaccgcc agattctcac caacaatttg 60
ggtcgttctg tggg 74

<210> 2913
<211> 353
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C10

<400> 2913

gacccaagcg tcagccccacg cgtccggcca cgcgtccgcc cacgcgtccg gtggattccg 60

agcgcttgtc attacctacg ctagtgacg agaccatgga tgccgatgaa agctttcata 120
tcgtgacgag cgaatttcc gaggatggta cacacacagc tatcgtcact ccacgtacac 180
aaatatccag tcgtgatatac gatgcacgtg ttggtcgtcg aagaatgaa acagtgagct 240
ttgacgacac cgtacacctac catgccttgc aacaagaaga aacagagact gtcgagtatc 300
aaggggatta tgaatggga tgcattgcgg acaaataatgtt cggagccagt agg 353

<210> 2914
<211> 378
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C11

<400> 2914

cgacccaagc gtcagccccac gcgtccgata ggttgcagtt gcacttgcag gtccagctcg 60
cttatcacct tctgcctggt tatctattga tggttcgga gtatatggac cagctgatgt 120
gttttaatat tagtgcttat ccagaaagta cgctccctgc ctacagtagc aacacttcac 180
gggaggatgg gggttttgga aactttaaac ctatatacaag tcctattgca atgatacgct 240
cagcctctat gatgcttcgt cattcttgg atcaacctgc agcagcggat ctgttacaac 300
aagcactgca acgtaccatg gaagatattt cgaatagtga agtttctcac aatggttcgt 360
ttttggaaatc acgggcta 378

<210> 2915
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-C12

<400> 2915

gacccaagcg taagtgcctt ctacgtgtat atttataag catagcaact atacttggaa 60
ctggatttct tggccttcca gttacacttt atagctgtgg cttcttcct tttcttattg 120
tatttactct agtactattt gctcaagtat gcgtgggttt tgcgtttgtt gaactactac 180
aacgaacaga cgctccctt gtcaagttat ccaatgagtt gcgaccaatt agtgccatcg 240
ttcctgaaca agtcgaatca accagtgaca gtgccgtgga ctcagaagtg acggaacgtg 300

cagagcattc ttcaacactg cacgacggta ttcctgttagt agcaggttcg tgaaaactta 360
tttgctgtt tttgctgatg ttgttaaaga atgcccctgt tgctcccta tttactatga 420
gtgta 425

<210> 2916
<211> 444
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-057-Q1-E1-C6

<400> 2916

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ggagtgcgtc cacgattgca gagcactttt ggctgcgt aacttctgt gaatttagact 120
cgacacttgt ttatgttgta ctttgagtan atgagagctg tgattgaacg tgtcagccaa 180
gcgtccgtaa ctggaggagg aaaggtcgct tccattcaag aggtaggaa ggtgagacag 240
ggtttagga gtaaaagagta tggagtgcga ggtctctgca tgcgttggg cagcgctgac 300
cgaagacacg gtaaggagga tcggttgtgt ttatfffft atatttcgg gcacgctccg 360
ttaggaggaa gatcttgaat acatgtaaat attgggctc atgtttcgac ctcacataat 420
gtctcgtag tttcaaaag acac 444

<210> 2917
<211> 304
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-D10

<400> 2917

gacccaagcg tcaggcgtaa gtctctcaag gccaatcctc cggaagaaat tccacggta 60
aaacaagagt ccgctctagt tgactctgtg gaggatggaa agcacgtcgg cagccatgaa 120
gaggtttca atggcgcctt tcccaagttt aggttatcgc aagccccag tagcgtggat 180
agtacgaaga aatcgagtc aggacaggtt tatctgcct atgaaagaga taattggacc 240
gagtcagagt cttccaaacgt tggacacgtt cctgaactct cacaccaccc gggttggaga 300
cacc 304

<210> 2918
<211> 429
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-D12

<400> 2918

gacccaagcg taaggtaaag gggttgggtg aagatggcac aaccccccct tgacgagatc 60
ttcaagaagc ctccgaaaga ctgttcgcaa gattactgtg acccttatga attctatgaa 120
tatcaaagat attggaaag agagtataaa gtcaagtccg aagagtttat atatataaaag 180
gacaaagtca aggagtgtta ttatcgtgaa ggggtcgctc actataagaa ttgccgtgaa 240
cttgttgcgtc agtattggaa aaagctccgc gaagtacgcc gtttctatca tgatcaccga 300
aggattatac ctggaaagga atatattcct gttccgaagc caaggaagtc agaagaactg 360
ctggatagtg cgatgtaga actgaaaaac gtatcgtga catcagcttgcatgaaacctc 420
agtccctaac 429

<210> 2919
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E10

<400> 2919

gacccaagcg taagccccacg cgtccggccca cgcgtccgaa tttgcaataa tttgctatct 60
ttatcgttag tttttttgtt atctgttcat attgttcgag cacaatgctc ggaagagact 120
atcaaacaaa tggaggcaat atttatacaa aactttacac aaaatgaagc aatggctcct 180
atgtgcttac attctgcctt tcatgactgc tggaaatggtt gtaacggagc attgtttttta 240
ccagaagaaa tagacagacc tgagaacgct ggttacctc cgctgaaacc actgctgatg 300
ccatTTTACTT cacagttcc ttgtatcagt attgcagact tgatcaactc ttgtgcggtt 360
actgctctga agttttggg tggccaaat tgcgtcaagtg tactaggaa gactcgacag 420
agggtgtt 427

<210> 2920
<211> 434
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E11

<400> 2920

ccggctcgac ccaagcgtaa gacaacgtgc cctttggag aggccattgt tgagttggga 60
gacacaagtt tggcagtgga gacttgtgaa gagttatcta ctgtcgatcc tccgcacata 120
aaatatgtct taaaatgggt tcaaataatt gcaaacggct caggatctca tcaccatctt 180
cgaaaacttg accaacgctt agatttgata cgtggagcta cttgtaaggg aggtggagtt 240
tatttatatg ccaatcaact tggatgtgat ggaggaaggt tatatttga tggatgtgct 300
tgtatttgtg tcaatggta aatagttgct caaggatctc agtttctgt ggagactgaa 360
gtggaagtga ttgttggcac tgttagattt gacaaagtga ctagtcatcg tggatgtgct 420
gcctcacgag gttt 434

<210> 2921
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E12

<400> 2921

gacccaagcg taagcccacg cgtccggttg gttggttcg tcgcttcggc ctttttttgc 60
tgattctcggt gtattgcacg agaaaaagtc cttaaatgg aaagagctt gaaaaggcagt 120
gcacgtcttg tgccatacg tccaaaggct gttgtacctt caaaagggtc taaaactttt 180
tcgttgcattt tagttggc acgtggat ggtggttgca cgtactata aaggggagga 240
gggtcatata ttactaatgg gagaattaca gtaccccaa gggcgctaa tccccatgacc 300
aaggacgagt tcttcttact ggttacttac tcgagagaca agctttgcc gctgtttgt 360
acaactctac aaagttccga aacacaatta tggggttac tttgggtgt atttcacag 420
ttgtttt 427

<210> 2922
<211> 430

<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-057-Q1-E1-E8

<400> 2922

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tgcgtgggt tggacgttat ttatgaactt ggactcgatt gacacaggga ttaaggctcc 120
tttgacccg tttgcagacg cctcacgtgg agaggacgca ggagtagcga ggggtgtagt 180
ggatattcgc ttgcaacaaa ggaacggccg caagtgcctc ggggagcagt caagggcgtg 240
agacaaaagg gcggttggat aaatgtgcga aggccgtcaa aaggagttt tggtgcaacg 300
gtggtgtcgt agacgacgga gggggggaa gagtcatcga actgcaagga cgagagaggg 360
ataaaagtcaa aaagtttcta gttcaggaga aattagctgg aaaggagctg ataaaggtgc 420
acggtatatg 430

<210> 2923
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-E9

<400> 2923

gacccaagcg taagcccacg cgtccgagaa agaggaaagg tttacgagag aaggaagtag 60
aaagaagaga gtgttaaggcg gcgtcataat agaaatccga aaggagtaga agaaaagaga 120
gagaagaaag aaaagaagag aaaagccgta ctgaagaccg acacaggtac tcgaggagaa 180
aggagaccca aatTAAGGTG agagaatgga cgataaggaa cttagccaaa ggatatggta 240
tctgcgttag aacatatgaa agaagcagca ccgactgttt agcaaaaaca cagcactctg 300
cagaaaagag aaaatgtaaa gtatagagtg tgcggcctgc caaatagtag agaagaaatc 360
gatgaaagtg aaagcgagta aaagatgacg tatagagaat ggcggccta acagtaagga 420
tcca 424

<210> 2924
<211> 424
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-057-Q1-E1-F10
<400> 2924

gacccaagcg tcagcccacg cgtccgacaa tggcttattt gttgtcatag tatagaaaat 60
acaacaaaat gatgggactt gttcgttgtt agtggaaatt ttccgttca tgactagatt 120
tggcttgtg ataggaccga acttctgtt tcaacggaaa cgtcagctg acttgctgaa 180
agaaaagagg cggtgtgtt cttccgcata taggacagct tgtcatggag gtgttattat 240
gagtcgatcc aacgaaaggg taaccaagac tagtgtggaa cacttttgt caatggccgc 300
gaaaaagctt cgtgaagtct ttggatattc ccactttcct tctggccaag aagacgtttt 360
gcaaaaacta ctttgcctc ggtagttgct ttggacttg ttaccaactg gtggtgaaa 420
aagt 424

<210> 2925
<211> 357
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-057-Q1-E1-F11
<400> 2925

gacccaagcg tcagcccacg cgtccggct ttgttattcg aatctcgaaa cggactagaa 60
gaaacataag acactgaaaa taaagcaaag ggttttagg tacaaaggct ttcgtatcga 120
cgtgactaca gacaatttcg tacaagaggc gcgatggtag atcaagtatc ttcacccaca 180
ccagactcgg agcacgtgtg gtataaaagt tatcaagggtg aacaggactt gtgttacatt 240
cgagcaactta ttgacaacga cttgtctgaa cccccactcca tttttactta tacacacttc 300
ctcaatcact ggtcacactc acgtctcccta cgccctttc caagtgaatg tactggg 357

<210> 2926
<211> 367
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-057-Q1-E1-F6
<400> 2926

gcaaagaact cgattacttc ggaagttgtat gattcctcgccctaggcgat cgttgcaaga 60
gcaagcgtca actcctcggt agaaaagaaag tttcgcatg gaaagttcct acttgaaaaa 120
ataagaatcggtgcgttca ctcgaacagg gggaaagccgg actttgtcgcccttagggcg 180
gtgaagagga gaggccggtg aagaacacgacg gcggggaggga cgtttccggg cgcaagactt 240
tattcctggtaaggaaaaaa gtgcaacgca gattgccccg gaggctact tgggttgtat 300
caaccacaa gaggcacttc cgagaggcgt gtgaggtgac caatacaagt gtgaagattt 360
taatggc 367

<210> 2927
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-F9

<400> 2927

agcccacgcgtccggcctttaaaagcgctg caccgtggttt gttgagatac aggtttgtgg 60
attgttggaaa aagaaaaagtt gtttggggac caaacagagt gacaagaaga gatggcaagg 120
agaatattgg gtgcttatat gggagatgcc acagtggcaa ctctgttcag tatcaaaaatg 180
ttgttctatc ttactatcat gggtttctccataactatct tggctctcat gggaaagaac 240
tcggatggta tttggataca tagtgtgcca cctgcagatc aatattgtgc atacaagtct 300
tcattggagg tgaaccacca tgaaattgct tcctattgca agtataatcct tgccgtacct 360
gctattgggt tggttatctc gtctttccag ttttgcatttgcgttgggtt 411

<210> 2928
<211> 429
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G11

<400> 2928

gacccaagcg tcagcccacgcgtccggcga ggagagacga gattgttgcgtt gttgttgcgtt 60
tttggttggtagttgggtt gaaagccaaac cacagtgcacatgttgc agatataac 120
actagtagaa taattgttgcgtt ggtgcaccag ttttttttttgcgttgggtacaaaaa tattacgaga 180

aacgaacaag atgtggtgtt atgtagaagc ttcatttcca acccataatc atcacaatgc 240
taataataat aatatacatt gtattcataa gagaggagtt gcttcaagt atgtaaacaa 300
gttggttgcc ataagttta ctaggtcgaa tcgttgcctc aactggagca acgataccaa 360
agcaagaata accactacta ctactactgc agtaccctgc ggaaaagaga gcagccgacc 420
ttgttcttt 429

<210> 2929
<211> 328
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G5

<400> 2929

tggtaaaaga acttagatcg agagcagact ttgaccaggc tagtcaagca gacaagttcg 60
tgcgcgtgga cttttatggc acttggtgcg ggccttgcta gaaggagttc tccctagctg 120
gaagaactgt ctgctgaccc tacttaaat gggagagcg gtagctgtt tctacgcagg 180
tatgaggtgg agagattggc agatgttgcg caagaagttt gggattaccg cgatgccagc 240
ttttatttgt tagagaagag gaaagaaagt cgaagaactc gtcggtgcggt cgaggaccgg 300
ttaaaacata tgattgagaa gaacgctt 328

<210> 2930
<211> 385
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G6

<400> 2930

acgatggcca gcgtgatcct gtcacaattt tacctggac tcgttgtat gagtgggttc 60
gacaggagga aatcttgggg aagtctgagc atcaccagg aatcagagac ctcggaagac 120
tgggagctcc tatggcattt gtcctgatg gagggattga agttactat tggggcgcga 180
cttaggatcc cagggaaagg aattttctt taggtggcg gtgtcatcca gaggagtgc 240
gtgcgcgcattt atgagatcgt tcttgctcg agaggcgacg gtcagtatga ttagccagga 300
tgtgcggcg tatatgagac atttagtgct gcagtgcagg ctttgcttc aaaagaagcg 360

ggtgattcgg gtccttctac aaaga

385

<210> 2931

<211> 425

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-G9

<400> 2931

gacccaagcg tcagatttct gccaccatag aaatttcgaa accgtcgaaa cattttgtgg 60

cttgcttttc ttttctttca agaatgagca agactttgga ctcacttgac gattttcggt 120

ttgaaggcagg tgttacaccc ttctcctcct tttggattcc ctgtgttacc tgtgttcttt 180

attttacgct cactagagtt ttcaagttgt tggtttcgaa tcgaaaaccc cttcgttccc 240

cttcattact gtttttttac aatggctgtt taagtttctt ctcttttattt ctcttttattt 300

ctcttgggtgc agttatTTT gaaaagtcca aactctatac ccctcatgag ttggtttgg 360

gctccgctac ccatcatgat ggccgcctcc agtttagctt attggctaaa ttacctttc 420

aaata 425

<210> 2932

<211> 439

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H10

<400> 2932

gacccaagcg tcagcgacga tttggaaagca atggagaatt ctcaaggtga taaaccagac 60

tggaaacaaa aactggaaaga aacttataaa catttggaaa gtttattgaa gaaaaccgaa 120

gagatggAAC agaaaatggTC cagatatAGC ttgtcgCAGt tttcaACGGA agatCTCGTA 180

agagaACTCG aaaaaAGAAT gggatggcA caaggAGATA ttccgatgTC tgatgAGAAA 240

aAGAGATTAG tattCATAGG tcctcCTGGA agtggAAAAG gaACTCAAGC accAAAAGTA 300

actcAGAAAT attgtttatG tcatttggca acaggAGATA tgTTGAGAGC tgCTGTATCT 360

gcacgaacAG gATTTAGGGA aAGAAGCAAA gaaAGTTAG gacGCCGGTG gtCTCGTATC 420

ggatgaaatt gtggTTCT 439

<210> 2933
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H11

<400> 2933

agagcgccgt cgcccgacc aatcccatt gtctattgaa gcacactcaa ggagcgaata 60
aagagactac tgaaaaaaaa atcatgcaaa aaaatcaacc cgttcacgca acatagctgt 120
tttgatgttag ttgcagttgc ccattgttat agaacgagca gagttggagt ttgagatgaa 180
gtagtcgttg ctcaagcgaa acatagttga ctggcatcga gatgacgcac tagtgatagt 240
ttcttccaat cgcaggtgga ataggtttc cttgttagagg ctgacttgc gactgcgaga 300
ttagtgtgga taaagctcat aggaagaaaa ttccacgtgc ttcaagttt cgtcttgaac 360
tggtaaaaaa taatggtttta cttggtaag ttgctatagc gtagaaaggt agccaacgag 420

<210> 2934
<211> 322
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H12

<400> 2934

gaccggagcg taagcccacg cgtccggcca cgcgtccgtg cttttctcg tcatgtcgca 60
gtccccgtat gatcgtgccca ttacggtctt ttccccagat ggacacttat ttcaagttaga 120
agatgccttg gaagcagtac gaaaaggaac aactgccgtt ggagttcgag ggaagaacgt 180
catcgccctg gcaatggaga agaagagcat tgcaaaactc caagaagcac gaactgtggc 240
gtaaaaatgtg tctattacat aagcatatat gtcctgctt tgccaggttg acagcggatg 300
ctcgagttct ggtgaaatcg tg 322

<210> 2935
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-057-Q1-E1-H2

<400> 2935

ttcccgtagg tcgaccaggc ctgcggcttg ggaaaacgac gtcgtcgaa caactcgat 60
tgcagagtgg aattggatat cgacggctat tatggggAAC aaaataggAA ggcgtgcACG 120
tactttgacg gacgtgtcag caccagacgt cagtcaagt tgggcaaATT ttttgggacg 180
caccggAAAC gtggaactgc cagcatgggt ggattatgtg aggCgggAGT gcgacgAACG 240
aactagCTCC agatggtCCA gactggcgCG gcctgagaAT ggcagctcGC gCgCggcaAA 300
tctgtagTCG gtccaggtAG aggtggggGT gcattccgAC gggtatacGG tgctcgggAG 360
agaaggggat cgaaggctan tcacttcccG ttG 393

<210> 2936

<211> 266

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-057-Q1-E1-H8

<400> 2936

acggtctAGC cttccgggc cgagacgCGC gtccgcgggt gtttgcttgg gtatAGcggt 60
ggTgggcgtc gtcgtcgtcg ctgctgtAGA cgCgcgttcc aAGCCTTGAG gacaAAAGTC 120
catccgcaat cgacgcaAGT cttcatggT gacaacgtGA cgaactaccG ataccCATT 180
taggcgaAGA aatagaATTG cgctgttgct acctacttct tgCaggctc aggtgcaACG 240
ctccgagAGC tggatgagct cttcta 266

<210> 2937

<211> 329

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A1

<400> 2937

agcttacctc tccaagaACG tggcacGG cagtccatAG aacgtgtGT AAAATGAGAG 60
aacgtacGAG aaAGCcaAGT gagGAACGA aggcaAGtAC atggcggACC gagAAAGGAC 120
aggcgtAAG acgtgataCA gacttagGAAG aacAGATAAC agAGCTATAA aggACgtCAA 180
agaAGAGtAC cacGactAGA agaggtacGG aattcacGAA gaaAGAACGT gaaAGAATGA 240

ggaatccac gtgaggaaaa caacgcaact agagggcggc ccgagaaaagt agaagagcat 300
gaaaagaaga gagaatgctg ggtggaata 329

<210> 2938
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A10

<400> 2938

agcaagagcg ttcctcagta cggaaagaag agactttgtt attaggtacc agaagtcctc 60
gaagtaattc agatatttag aatggttaga gtatctatat aaagtatata tttgctcaag 120
tatgaacgat taggaggtgt gtctttgagt accaccagcc ttgacaagaa ggaagaaacc 180
aaaaaaaggcg gaaaaaagga agaacaagga aagaagaaga aagatgacga cctaaaaact 240
catatggcga acgaacgaac tttcttcaag tggttattta caggtttca tattggagct 300
atgggtactt ttattctggc attctttca gagtctcgag atccttcaa gttgttattg 360
gttatctttt gttgggtgat tgccttgagc tttgtttt atggattata caa 413

<210> 2939
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A12

<400> 2939

agccccacgcg tccgcccacg cgtccgatcg tttgtggtgt ttgtgggggg agagagagag 60
atggataccg gaaaccctta tacttctgta ggcgtaagga gtacaacccg agcaaaaacc 120
agcgaatcaa agaaaaaatg gaaaaagatt ctgccttata tcggaggtgt agttattcta 180
ggattggtgg ttggtttggc caaagcaaag cacgacgaag atacgggtga caagaagaag 240
acggcagtag caaaaagaata aacgaagcga gacattgaaa cgctgtcgaa tggttatgaa 300
agggtgatat cgtgttggc gttcttattt ggttagttgt ttttcgtat ggattaaaag 360
aaagatagac ttgtgtctgt gattcttattt gccaaaagaa aaatgctttt 410

<210> 2940
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A2

<400> 2940

cccacgcgtc cgcgacgca ttccatgttg aaagaggta cacgtatatt gtccgatctc 60
aagtttcagg tgcttcaaga tggaaaaccc caggtataa cttcggatca agtattcgga 120
ggaaagaaag tagtattgtt tgggttacct ggtgcctta ctccaacctg ctctaggcag 180
caccttccag gctttggaca gaagggttcat gaaatcaaat cgaaaggagt agatacagtc 240
gcttgttag ctgtcaatga ccctttgtt ttacatcagt gggcagagtc acagggagtg 300
gcagggaaaa ttctcatgtt agcagatggt ggtgcgcaat ctgtcaagaa acttggactg 360
gatat 365

<210> 2941
<211> 330
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A3

<400> 2941

ggaagaaaaga ggcacatacg ggaaaggcagt aaaagaagaa agagaaagga aaaaactgag 60
tatcaggaag aaaagaggga gtagatgagg aaagaaagat caaggaagta agagtaacag 120
aaggagtaat gtgaatgaaa gcaggaaagt atttgaagaa gagagtgtaa agcgcgtagc 180
ttttgcataa tgtcccagcg agtcaaagag gaagcatcaa gacagaaaga gaagtagcc 240
ggtaagaccc gaagctagtt gatcctatgc tgtccaaacg aagtaacgct gaaccagtat 300
ctgtggaaa aagattcgga agagatggca 330

<210> 2942
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-A8

<400> 2942

aggggcgtcg tcgtcttgg gaacattgtt attgggttgt gaaagtttat agaaaatgac	60
aaaaggaact tcgagtttg gtaagagaaa taacaaaact cacgttttat gtatacgtg	120
tgggcgaagg gcgtaccatc tacagaagaa gcgttgtgct tcttgtgggt acccatctgc	180
taaaaagaga aaattcaact ggtcgaaaaa gtcgaaaaga aggcgAACGA caggcactgg	240
tcgaatgcgg tatttgagac acctaccgcg acgattcaaa aatggttta gagaagggtt	300
caaggcttct tctaaacgtc ctgctccagc accttcagca gtataataat tgac	354

<210> 2943
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> . unsure at all n locations
<223> Clone ID: LIB190-058-01-E1-B1

<400> 2943

aggagaatgc tgggtggagt agcgaaacaa gagaagggaa gtaaaaggta agaaaagagga 60
aaggtttacg agagaaggaa gtagaaagaa gagagtgtaa ggcggcgtca taatagaaat 120
ccgaaaggag tagaagaaaa gagagagaag aaagaaaaga agagaaaagc cgtactgaag 180
accgacacag gtactcgagg agaaaggaga cccaaattaa ggtgagagaa tggacgataa 240
ggaacttaggc aaaaggatat ggtatctgcg gtagaacata tgaaagaagc agcaccgact 300
gttttagcana aacacagcac tctgcagaaa agagaaaatg taaagtatag agtgtgcggc 360
ctgccaaata gtagagaaga aat 383

<210> 2944
<211> 337
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-01-E1-B10

<400> 2944

cgacgcgtg gtttttggat ttcgacgat tggcagtagc agcagcaaca tgagccgtcc 60
agaataacttg gcgcctcctg aaatatatta caacgatcag gaagctaaaa aatatttaac 120
aagcacacga atgaacgaaa tccaaagaag cctcactgaa agagcgttgg aactgctgtg 180

tcttcctgct gaccaaaagt gcttattgct cgacttgggc tgtggctcag gtctaagtgg 240
tgatgttatt acagaaaatg ggcacgaatg gtaggtttt gatatatctc aagctatgtt 300
ggatgcagct tgcaccagag acgttgaacg tgatttg 337

<210> 2945
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B6

<400> 2945

agggattgaa gaggaatgac gtcaagtccct cttccggaag aagatatcggt tgctgttgct 60
tttagactag tacaggaagg agacttgaat actttgacca ttctgtaaagt aaaggaactt 120
gtttaacaac aaatttagtgt tgaagactcc tatgacgacc aactcaccga gctcgtgaaa 180
gttgctatcg atagacacat taccagtttgc caacaacaaa gcatagaaga tgactcaacc 240
aagaacacaa agaaagatac acaacaacga aacaaaccac acaacacgaa agaaatagac 300
actagtctaa ctgaccaaga agtgtatcat caatttgaca aagtacgtcg tcaat 355

<210> 2946
<211> 255
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-B9

<400> 2946

cgcgtccgcc cacgcgtccg cccacgcgtt cggaaaaaaa aaaaaaggag acaaagctt 60
agtcgcatta aacagccctt tgaaacaatt tttgtcgtca caatttagggg gggttctcct 120
cgggtttaaa ctctctaata tttttttttt gaattaaaac acctccaaaa ttttccccaa 180
atttatata acgggcgtcc tttaaaagc tcttgaatgg gaaatacctt gaggtgaaca 240
accttaacgc ctttg 255

<210> 2947
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C11
<400> 2947
agaagaactc atcgagagaa tatggtcgta tgtagaagag cacaaggaaa cgccataatgg 60
agggcgctt ttggtacaag agctgtgtag tgttttctcg ggagatgatg tattatgcc 120
tcgagcattg tatgttttgg ttcaacagga gaaaggcagtt gtatatgaaa tagaaaaaga 180
tgtttttggg gttaaaatttg gtcctgtatct ttctatgaaa gcgtttgata agaatatttt 240
ttcgatgatg catcaaattt cacgactgga aaagcacatt gataatttga atcaaaaagtt 300
gtctgaaatg gaagaaaagac taaaagtttgc tgcagaaaag ttgagaaaat acaagtcttc 360
acagaatgag ctcttatatga ttgagcgc 387

<210> 2948
<211> 347
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C12

<400> 2948

agcccacgcg tccgctcatg ggagaaaagct ctagtgagtt gaagggtggca gaaacttggg 60
acagaacacctt ggaacttgggt attaagagag ttgcatatgg agtacttgta ggctcagtaa 120
ctgcttgat cttattccgt tctcccttga cgagagttgc tgtttcgagt tttggaggtg 180
gtgttagggtt tggaatgact tatagtgacg caaaacggga ttttgaaaaaa ctcaaaccctg 240
cagtctcttc tcagggattg accgaggact tgtctatgaa tagttgatga ggtgggtggcg 300
gcgggtggtcg tcgtgaataa aagaatactc gttgttctcc tttgaaa 347

<210> 2949
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C6

<400> 2949

agcaatgacg ctcattaaaa gtgtggatgc tcgagagatt ctagactcga gaggaaatcc 60

gacagttgaa gttcaagtca ctactgaact aggtgttact cgtgcagctg ttcccttctgg 120

tgcttcaaca ggagttcacg aagctcacga gttgagagat aacgacaagt cgaggttct 180
aggaaaggga gttacaaagg cagtacaaa tgtgaagacc gaacttgcaa aagctgtgat 240
tggtatggat tgcggacc aggcaagcgtatcgcaag atgatctttt tggatggAAC 300
tccaaataaa agtagactgg gggctaatgc tatacttgaa gtttccatgg ctgtttgt 358

<210> 2950

<211> 368

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-C8

<400> 2950

agcccacgcg tccgtcactg cagacgctgg tgccgcggac gctactccta ttcaaggcagg 60
ctccgtaaag aagaattctt ttgttagtggaa gaaaggttt ccgtgcaaag tggtagacat 120
atccacactca aagacagggaa agcatggcca cgcaaaagcc aacatagtag gtattgatat 180
cttcactggc aagaaatacg aagaaatgtg tcccacctcc cacaacattc tgcagccggt 240
ggttaaccgc aaagactatc agttggtaga tattgaggac gatgggttg tagttcttat 300
ggatgaaaac aacgagacga gatcagacct gaaacttgat ttggagaatg atgaagtaca 360
caagaaga 368

<210> 2951

<211> 378

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D1

<400> 2951

ccccacgcgtc cgccccacgcg tccggccct gaaaagatat agagacatat ttatgtatgt 60
aaactctccc tccttgtcct cgtcgactgg aacgagcctt tccaacgcctc cttgtgctaa 120
tactttgcat caaggacaag agagtgactt gcaaagcatc gtcgcaagca aacgctatga 180
aagatatgtg agcaactcag aatgcccaca aaactttttt cttgttatac ttcgaaacag 240
atgacctatt ttttgattt ccaactcggtc gttaaaaagt gaacggggct taaggcttc 300
tgttcgccga caagaatatt tgaagatacg aatttgcgg ttaatgttgc tcaatattta 360

ttgcttcagc aacatcat

378

<210> 2952

<211> 360

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D2

<400> 2952

agccccacgcg tccggccacg cgtccggttg caagaggtgg ttttcaagc atgatcggtt 60
tatgcaccga agaagacgaa gaaaccaaag tgctcaagga caaggtggaa ctgattcaag 120
ttcctgaaaac agtggattgt cttcaaaatt tactcaatat tattccattc caacttttaa 180
gttatcactt ggcagtgcga agaggtcaca atgtggacca acctcgaaat ttagccaaat 240
cggttaccgt cgaataaaatg gcgaattgtt ccatgtggag gaggttttgtt tttttgtggc 300
ttgggtcaac ctttgaacga aaaatatctg gttcattttat taaaagtatt ggtaacaatc 360

<210> 2953

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-058-Q1-E1-D3

<400> 2953

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gtactggaaa tatttgagt tttgcgaccg ccacaaagtt gaatatgacc caaccgtttg 120
tatgtctttg tacgtacaaa ctggttctct acagtttca aggaaatcggtt aaggtcaaca 180
agttattcct ctgttggaat tagcgaaaga aggacacacctt tcatgggtgg aggaactttc 240
atacaattgc cgtcgtttat cttctctcgt ttcaacccttg ttgggtcaagt tgtgtgaggc 300
actgcctcag ttgaagatgc tgaatctgtc tggAACGTNT cttggtgacg aaaattttgt 360
tgcact 366

<210> 2954

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D6
<400> 2954

agcttctacc agaacagcag tatgtaaaaa acaaaggaa accaagagga agagttgca 60
aggaatcaac ggaagagaaa catccgacga gacacaagtt gaatcatgca aaaccacgag 120
ataaggagat tttggaagaa gaggaaatct tcaatttact agaagcttt agaaagtatt 180
ttccagaacc accgagcaac ttgagagctc aggagataat tgaagttagt atttgcattcc 240
cttggctttt gaataattca cagaaaaacg agtaggtctg gtaggttctt tacggagaaa 300
gaacagtggg agctgtgggaa aacgtttt aagccttggaa gtcgaaaatg gtactca 357

<210> 2955
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D7
<400> 2955

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tattaacctt tctaagaatt ggtgcctttt tgtttgggt agctgcaggt tttggaagtg 120
cttcagcgga ccatcgtaaa agagaaaaaa tttaatttc taaaattcac gagcgcaatg 180
ccaaaattga ggcgttggaa agtgaactaa agcaactgaa agggaaatt ccagcttcta 240
caggtgatcc agttcaagat tggttgaatc aatttgaata agatgtatat gttacaagt 300
ccttgtggaa gagagagata gtcatttggaa taaaatttagt tctttcccc aaaaaataaa 360
atgggacact cctaaaaaaaaa aaggccgg 389

<210> 2956
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D8
<400> 2956

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ctcgtcaact actgcccagg ggtggattcc ataccgtta cagtcaaaac aacggacctt 120

cgcgaaaccc tgacaaatac gacaaaatcc tatgtttcca tcgaaccata cggaagcttc 180
tttaccactt cccgaattct gcgtaaacctt aaatttgaga gactaagact ctgcttctt 240
cacactcaag acaaccagg tgcgaaacca ggtaacctt gacgagcgac tcgttagtct 300
ctcaccaccc ctctgtcta cgtgcttcaa acgtgtgcct ctgcccccct tcgt 354

<210> 2957
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-D9

<400> 2957

ccccacgcgtc cgcccacgca tccgacaagt tattcaacaa aaatatggga cttgtggct 60
tcttccaaag aacactattg tcaggcaaac acaaggatat atatccattg gttggttgcg 120
tctctcttc tcttattatg gcaacattct tatccgttga ctaactgctc cacaatccaa 180
ctgttattatg gaaaaagtct gaacgcgagg ccttgctcg taacgaattt gagaataaag 240
aacgatggtc tattcggttc cttaagcaat ttcgagacca ccctattacg gtgttcaaatt 300
cactggaatt ccatacgcag agcaaggaat aaggatcatc tgtaaataaaa tgtccatctc 360
tgttgtttt tcataacgat gcaatgtctc tcacttc 397

<210> 2958
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-01-E1-E1

<400> 2958

tcacgttcct agtgcaata atcggtctcg taatatcgta tgccactcct ctaagtgaaa 60
gatggcaaag ttcttacctcc tgccaagaga catgtaagac agtctgtatt caaacgcaga 120
tatgttcaac tccaacacct acaccaactc caagtgtttc tgcgcaacaa ggaaacgtat 180
accgctggag tgagacgtat gcaactccta ctccaacacc aactcttgtt tgtactttatg 240
ttccgcagtg cactcaagtt tgcagcagca aatgcccaag tcagacaact tctgccgtag 300
aaagcaacag ttatacctcc tcttctactc aatcgctac cacatcaaca tactattatg 360

<210> 2959
<211> 276
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E10

<400> 2959

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ttccaatgta catagacacg acttttctt ttgacaagag ggacgatgct atgccatgca 120
gacatatgaa tatatataga tatacaccta tgcatatgta catatatgca tatatatatg 180
tatgtatcca gattataga gataatacat gggatccata gagatagata gtttgtacag 240
ataaaggatc gatagaaatt tggcgcaaaa cccagc 276

<210> 2960
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E11

<400> 2960

gaccacgag tcagccccacg cgtccgcccc cgcgtccggg agagtctttt atggtagcaa 60
ctatttgttc tctgtttcgt tcagctggac ttggcgtcat cgtgttgag gcctttctac 120
ttacttcctt ggtataccct taagtgattc agataggaag cttgggtgg atgagttgat 180
ccgagttatc caacaacggg cagtcgattc gcaaagagaa gcccgacaca gttactgcat 240
tttttgtgct tgttagtgttc taaagttggc ttatccacca tatttgaaaa acgctttacg 300
ccaatcagta accaaatgta ctccagacc ttttgactgg g 341

<210> 2961
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E12

<400> 2961

cccacgcgtc cgccccacgct tccggaaatt tcgaaaccgt cgtttcattt tgtggcttgc 60
ttttcttttc ttcaagaat gagcaagact ttggactcac ttgacgattt tcggtttcaa 120
gcaggtgtta cacctttctc ctcctttgg,attccctgtg ttacctgtgt tctttatTTT 180
acgctcacta gagtttcaa gttgttggtt tcgaatcgaa aaccCCTCG ttcccTTCA 240
ttattgtttt tttacaatgg ctgtttaagt ttcttctctt ttattctctt tattgctctt 300
ggTgcagtta ttttgaaaa gtccaaactc tatacccctc atgagttggT ttgtggctcc 360
gctaccatc aggatggcg gcctcagttt a 391

<210> 2962

<211> 383

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E2

<400> 2962

aatggaagc ccacagaata catttggcc aggttgcatt caactagccg aagagaaaaca 60
agtgtttattt gtgggcgatg agtttaatc gggacaaaca aatatgaagt ctgtgctagt 120
agagtactta gtgggttagtg gaatgaaaagt ggagtcgatc gtgacttata gccactttag 180
gaacagcgat atgtttcagt tgactgacgg agaaatgtgg aaaccagagt ctgccgcgat 240
aagtagagtt attgaagata gtgtcagttc caatggact ttatacacgg aagatgaaat 300
gccggatcat gtagtagtag caagatatgt gccttcgtac ggatattcga acagtgtatgt 360
cgccgagtagtac ctgactagaa ctt 383

<210> 2963

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E3

<400> 2963

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acctgagttt gagaatattg ttccctcaat cctactaaa gttcgaaaag tggcatttat 120
ttattcgaga ccaagcacaa gatgtacttt cttccgcgca acgtgaactt cttctttgtc 180

ttatgagggc cccattttta gtccgtcttg ctgaacaatt tacaattact ggtcgacga 240
aggacatggt ttctactttt attaaaatgc tcaaacaaaa caagacaaag gagcagatcc 300
ttgactttat tgcaatgaga gttattattc gattgcgacc aggagt 346

<210> 2964
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E4

<400> 2964

agagaagaag agcgtgcgtg gaggatggat tccgttattt cactagttgg gaaagacttt 60
gttttatcag cagcagatac tgccaaacgcg cggtcggtca tagtaatgaa agacgatgtg 120
gacaagatat tggagctgga tagtcataag accttagcta tgggtgggaa gccaggtgac 180
tttgtcagt tcacggagta tataaaaaag aatcttcacc tttacgaatt ccaaacggga 240
ttgcaactaa gtactcacgc agttgctaac ttcatccgtg gggattggc tagattgata 300
cgaaaaagccc ccgtatataac caacctactt ttggggggtt atgattctgt gtccgggcct 360
tcactgtatt acatcgacta tcttggtaact tttggaaaac tagactata 409

<210> 2965
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-E5

<400> 2965

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tcttttttgtt atctcttttg tggtttgcct ttcaagact tgaagactat ttattctgt 120
atgttttaga ggtttcttcg gagttttttt gtactagtct tattccatgc ttcgtgggt 180
gtgaaaggct ctttcacaa cagcgttgc atgatccgc caatctctac atttcaatt 240
gccaaacctt ggcgtatata ataagtatata ttgtacagac tcatgggtta gaaagaagag 300
tgcaatggtt gaaaagtaac agcaaggtaac taaggtaccc gtanaggaag cacttgaaaa 360

<210> 2966
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-E6

<400> 2966

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taacaagacg tttcacagga gttcatcatac agacaacaat ctgtgaacta acactgggac 120
aagtatttgtt ctgtacgggtt ccacgaaattt ggaagacgaa atacgtgtaa ttcccgtacc 180
attgacaacg cgtccccaccg tgtaaagcag gacgccccga gagagtagag cgagtgacca 240
gataagacgc gagtctaattt gatgatattt ggtccactcc atctaaggct gaatcgttat 300
ctgttggaaaa agaatctcaa gatatggcct gacgagtggaa a 341

<210> 2967
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F1

<400> 2967

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cagaagccaa gataaggtat caaagtaaag aaagaaggaa aaggagaaga agagagggta 120
ggcttagaag cagcaaacca gagagggaaag cgttaaagca tgaaagaaaa gaaatccgaa 180
aaagaagaga aaaaggtaag aaagaggacc gaatcagggt aagaggtaga ggagcaagaa 240
gagaagagag aatgctgggt ggagtagcga aacaagagaa ggaaagtaaa aggttaagaaa 300
gagggaaaggt ttacgagaga aggaagtaga aagaagagag tg 342

<210> 2968
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F11

<400> 2968

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cgttgacgac ctcttccgta ctgtacgctg cagcaaagga gataggttt cgtcattatt 120
tgttatagat agctttaaag agtttatgaa atcataggaa gacgatgtgc caaggagaat 180
cgggattttt tggaatgtaa gaatacggag gaaaacccgg aaagttgtct tggacaggga 240
gagaaggta ccaactgtgt gctgcagttt ctc当地gatt tgaacgcaac ctgcccacga 300
gagtttgaag aatacagtgc gtgtcttgat aggcaatcaa gccaaacttta tctgtttgat 360
cgttgtcgaa agtttgaag aaaccta 387

<210> 2969

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F12

<400> 2969

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ctatcctcga atactcaacg cagtacttcc tagcggata tggatcaactg gttggactag 120
tgtggatgca gaattccacg ctcgattttc agcttcttac cggacatatac aatattactt 180
tagacctgaa aatttgaatc tgtgtgctat gcaacgtgca gcacaatttt ttgttaggtga 240
acatgacttt cgtaactttt gtaaagcgga cgtttcccaa gtccaaagtt ttcgaagggt 300
tatctatgcc tgcgatataa agatagttga aatgacgcac aagaatatca tagagaggca 360
actacttgag tcgatggaaa gccagccgca tcgattggac aact 404

<210> 2970

<211> 321

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F3

<400> 2970

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ctttactatc caaaaaaaga agagcagtag ccgacgggtgt tttcaaagca gaacttaacg 120

agtttctgat gcgagaattg tcggaagagg gataactctgg tgtagaagtg aaacccacgc 180
cgttgcgaac ggaaatcgta atccgagcta ccagaacaca aaacgtgttgg gagaaaaaag 240
gtcgaaggat tagagaactc actgcgttgg tacagaagcg attccgtttt cctgaaggaa 300
cagtggaact ttatgcggaa a 321

<210> 2971

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-F6

<400> 2971

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gtaaaaggga aaggaaagga gagaaagagg aaaggatga aatgcagaga tctctagaga 120
aaggcaagaa agaaaagaaa ggaagacaca gtaaatgagg cgagaaagca taggaagtga 180
aacggattag gaaccgtgt agtctatgca gtaaaagaaa gaatgagtaa gaaaaaaggg 240
agtcattcca ccaggggagt aaaggcgcaa gaaagaaacc caaagcaatt gacggaaatc 300
ggaaaaagggttggatcacg taaattaatc cgatttaaac cgagaacctt acctctccaa 360
gaaagtgttg cacggctgtc gnaagaacgt gctgtgaagt gagagaacgt acgagaa 417

<210> 2972

<211> 354

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F7

<400> 2972

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tcttactatt caagcagcaa cagttttgga gactttggag tcactgaaat atacagagta 120
tcttgacatg gtaaaggctg caggcctgga ctgcagggtt aacgactctg ctgtgacatg 180
gactgtttt gcagcaaaca atactggagt caatgccacc ttggcaccaa agcaacttgg 240
tatttctaattt atcacatcta atgcgacgga gagcaaagaa attgttaat attatgtcaa 300
ccgtacaattt atgtcgatg agattaagcc aggaacaacg atccttacag ct 354

<210> 2973
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-F8

<400> 2973

agcgtttgg a cagaagctt g acaaattccc gacaacttgc agaggttgg aataaggctt 60
aacaaagacg tatactctt gctatggaaa aaatattgca agttactcca aaggaactct 120
ccttcgtct ggaactgaac aaacccttg ttcaaactct taagctgaag aatatttctg 180
aagagacact tgccttaag gtgaagacga cacaacccaa aaggtacttt gttaagccaa 240
atgcagcagt aattggacca ggacaggaga tacaagttc tattgtgttgc cagcccttac 300
cagaattacc tccagacgca aacagttgcc gtgataagtt tctactacaa gtgatcaaag 360
tagacaaagg agcagaatcc gacgttcaag gccttgtgaa aatgtgtcg ccagacgtt 419

<210> 2974
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G1

<400> 2974

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tacccgttgc tggaaaaaaag cccattggta aagcagaaaa gaaaaaaagcc aaaaagaagc 120
gtgcagaatc ttacagtatt tatatttaca aagtgttgaa acaagtccat cctgacactg 180
gtatatcttc caaagcaatg agcatcatga attccttgc caatgatata tttgaaagga 240
ttgcttccga gtctagcaag ctggcagcat actcaaagac aaaaactctt acttcgagag 300
aaattcaaac tgctgtacgc cttttgttac ctggagagtt gggcaagcac gc 352

<210> 2975
<211> 326
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G12

<400> 2975

gacccacacg tccgcccacg cgtccgccca cgcgccgcg ttgtggcagg tttccgcgca 60
ccacgaccaa caaaaggaca cgattattta tgtgaagctc tacttattga ttcaactcat 120
tacgctccgg gagaggaagt taccgtgggt ttggtaaca agtcaacttc gaaagttaac 180
cctggcaaat ggtaagtga aaatcctccg gttaatggcg gtaaccctcc aaagccatga 240
accaaactgg caccaaaggg cccacttcaa gaaagttgtg ttgagcttat tgatggcga 300
gttgatgaag atattggagt tgttgc 326

<210> 2976

<211> 354

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G2

<400> 2976

tcccgccggac gcaagtggca cgacggaagg tagattggga agaaggcaag agagtgaaga 60
agctgcttct tcaagtggag gagacgttcc agttcccaag atacctctca ttcgtcctct 120
tgtaaacagg cgtgctgcag tctatcaaataat aatctcgaac tttatttctt catacactcc 180
ttcaaattcg tcaagttacg acgtgcgtcc ctctgtgtgt tttgcccccc aaatgtatgg 240
gagtggcaaa accatattag ggaagcactt tacggaattt gttttgttga accggcaggt 300
tttagagaag tatataatcg ggtttcctgg aattgctggc agtggagtga gcgc 354

<210> 2977

<211> 281

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G3

<400> 2977

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ttaacaggcg tgctgcagtc tatcaaataa tctcgaactt gatttcttca tacactcctt 120
catattcgtc aagttatcac gtgcgtcgct cagtggttt tgccccccag atgtatggaa 180
atgtgaaaaa cagtattatg gaagcacttt atggaattt gtttgttga cccgcaggtt 240

ttaaacaagt atataatcg~~g~~ gtttcctgga attgctggca a

281

<210> 2978

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G6

<400> 2978

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gggaggtt~~c~~c ggctactttt taaagtcaac tttgtttctt ggcagacacc cggagattat 120
tccattggtt tccgctattt ctctgtgtgg agtttgtg~~c~~g gttttgtga gcatcgacaa 180
cttgttttat aatccaaccg tggtagctct caagtcagag cggaaagcgt attcgc~~c~~aa 240
tgagaggcaa cgtgactatg aagacagacc ct~~t~~tttgaag ctggtaaac cacttcgtga 300
ccgtcctatc agttttattt ccccaa~~t~~atga tgaaaatagc aggattcctc attagttgga 360
tagtaaaata aatagttgtt ga 382

<210> 2979

<211> 324

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G7

<400> 2979

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ccaagatctg aacgagctca tctttggtt ccacagacat gtcgaacgac aatcagtctg 120
agaagagcac tttgaaagaa gcggaggaga agctgcagag tgcagttcat actggaacag 180
agaaaagt~~t~~tc tcaggtgtt~~g~~ agcgacgtca aggaaactgt gacggagaaa tagaaggaat 240
ggacagcgcc aaaaagttagc caagaagaag cataagatta agcacaagat g~~c~~gaaagaag 300
aggctaataa agcttttaat gcta 324

<210> 2980

<211> 371

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G8

<400> 2980

ctttatgag gagggtggct gggagtttt aaatcctgat ttttcagagg aaggctcagg 60
caaggaagaa gatgaggagt ctagtgaagc gtcgtataat ccatcgata tggagtctga 120
ggatgattcc gaggagtatg aaccagatga cgatgtggat acgaaggaac ttgaagagag 180
ttctggtgga gaggccgaac taagttcaga agaagaaggc ttagattggg atgaaatgga 240
aagacgagcc gcagaagaag acaaggaaaa gcgtcgctt ccggaagacg acagagaaaac 300
gaacaaatcc cgcaagcgat cgcgtcggtt acgcacatcgtc gtccttgaag aataaattca 360
acgcatttc t 371

<210> 2981

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-G9

<400> 2981

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aactatggag tcagcaacag tgcaaagggtt gtttttatac gtttgcttca aaaagaaaaag 120
cagtaactcg acatgtcaag ttgtttaaaa ttgttagctgg acaacacacg acaaacaagc 180
aagaaacctc ttccaccaat cccttgaga gaacagtaga taccgagcag gcacaagggtt 240
tgcataatac ttttgaagaa aaaccttga atgaaacctt ggatagaacg caaagattt 300
taccaattat ggcgcccaac aggtgaagaa cttttaggc agtatcgat tccgttcggc 360
ctaaccaacg aacagtttgt tgaaaagttt caactgttat cagaaagcat agaa 414

<210> 2982

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H1

<400> 2982

agattggaga aggaagtaga atggttcggt agttgttcgt gatggctcgc gaacatgctc 60

cttctattat ctttatgtat gagattgatt ccatcggttc aactcgatc gattcggaa 120
attcgggaag tggtgactcc gaagtccaaa gaaccatgtt ggagctttg aatcaattag 180
atgggttcga accacaccag aacatcaaag tactgatggc aaccaaccga atagatattc 240
tggatcctgc gttgcttcgc cctggcgaa tcgataggaa gattgaattt cctaattcaa 300
atgaagacgc cagactcgat atttaaaga ttcattcaag aaagatgaat cttgttcgag 360
gcatcgactt gaaaaag 377

<210> 2983
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H11

<400> 2983

agcggacgcg tggcagtgg aggaagctgg agtatctgg aagattcttt gcaagttggg 60
caagtggaaa ggctcgaaatg atcaaaagtt gatcatgtac ttgctatttag tagaacaaga 120
actgacaaag aatgacacca gatggaaaga gaggaatgag cgacctcgga gatggtaac 180
gtttgacgaa gcagagaaga ctatttgca agtggagagt ggtattcgaa ggcctgagct 240
aataagaatg cttaaatag cgaaagcaag aataatgact ttggacaaca atccagagtc 300
ttattccacg gactcttctc ctgaagagga gaataacgaa aaggaatttt aacgtgttgt 360
tgggtttgtt gtataatata catatatata tgtgcgggtc aacaataaat tcttat 416

<210> 2984
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H12

<400> 2984

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ccctaattgggt tggtagagac ggcggaaaag cgaagccttt gaagaagcca aagcctactt 120
cgaaggaact gacggaggag gatttgaat ttaagaaaag acaaaaggag gagcaggcca 180
agttgaaaagc agctcaacag cagttgaaag gaaaggcaa gaagtgactt tgcttctacg 240

agtttagctaa acaaacgctt tattttgttc tacaactatt cgggtacttt ttgatagttt 300
ccgtgaacaa gaattaaaca ttctttctcg t 331

<210> 2985
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-H2

<400> 2985

agcccacgca tccgcccacg cgtccgcgga cgccgtgggc gtaactttgt gggtttcctt 60
acaagatgtc ttttatattt cgtggaatca aaggccttca caatcctcgt tatggacaac 120
ccgtggattt acccaccgga ataatgtata gcttgaagca gatgtcggtt attgtccagt 180
ttgcgttttc tggtagtc attgctatgt tctcncaagt taccttttat ctataccgtg 240
actttaagtg tgcttcgat gggcattggg attacgccac gcatacgaa gtgtctggtc 300
ctgtgggtta ttgcgttac ttcattgctt tggggagcat ttccatcgta cttttagcta 360
ttgttgccgt agctactttt ggaacgctgt attttgaagt tcctatggac tatatccttt 420
a 421

<210> 2986
<211> 374
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H3

<400> 2986

aggatattcg agtactttgt caatctggca attattcttc attaaccagc catactagtc 60
agtatgatgg tgcagaaaagt tatgcgttt gcgactcgaa tcaagttctc caaggtgtcc 120
atgcaactat ttatagtgac gataattata taggaagcgt acgtggatac tggatgtcag 180
tcaataacttc aagcattgca agtcctgatt ctttgatgat gaagaaacct ccagtatcat 240
tgagaagcat tcgagctcgt tcctgaatgg cgttgctgtg tggataactg cgatatacat 300
atatatatat tcaggtatcc acagctcatt tattcaggat gaacaatcac tttcgttagt 360

tgtcgtgtgt cgta

374

<210> 2987
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H4

<400> 2987

cccgccccaa gccacacggc aaagtcacca gccaccgttc tcgtgtgatg ttgcgaagca 60
aagcaaaaaga gtggcgaaaa caccggaca taagtccgtg gacaaacttt aaggcttgct 120
ttactggttt tggAACAGCC ttggcacttt ttaccggta tgTTGTTTT aaacaggcct 180
aatactattt ttacaaccct acacagacgc aagtccccga gacgaaatcg gaagaacttg 240
gctcctgagt ttctgtttct tgtaaagttt gacacccacg tctatcccta catgggtca 300
aagacaggcc actgataagg ctAAAGTTT gtcctcggtt cttggccaa agtaataaaag 360
agtgttatgt tttctc 376

<210> 2988
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H5

<400> 2988

aggggcgcgc aacttccatc actgtctatg gtcaaagtgg ttggctgtcc accgtttcag 60
tcaccacctt tatggttatc ttttcgatt atcagtggtt tatgtatatt cacttcagta 120
acctttgtac aagttgatat gggagtagtg ttggaatggt tccgaaggct ttccctatcc 180
atatttcgca cccgtggagt tttgcgtttg gcttggta tggcttgggg tgcccatctg 240
tttgaagcct tggtagcata tcgaatatgt acaagacttg gtggtgaaa agatacgtgg 300
aaatggacga tacaaacttt ttgcgttagga tatccttccc ttcgtttgtt gcagaaaagg 360
gaaaggaaga cga 373

<210> 2989
<211> 389
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-058-Q1-E1-H6
<400> 2989

aggattgtga aaaatgtttg cagctagatc ctcaatttgc aagagcttat gccagaaaag 60
gtgctattca tttctataatg aaagaatatac ataagagttt ggatgcctat caacaaggac 120
ttcaagtggaa tcctaataat gcagaattga aggaaggatt gcagaaaaact ttgagtgcta 180
ttgcagaaca acaacgctcc gagaaacctg atgaagaaca aatcaaacat gcaatggcag 240
atcctgaaat tcaaaagata ttgatggatc ctgtattaca aaatttgcata caagaagcgc 300
aatccaatcc ttcttgata cagaaagcaa tgtctagtcc aggaatggca gcaaagatac 360
aaaaacttgt tgctgcaggt atttacgt 389

<210> 2990
<211> 382
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-058-Q1-E1-H7
<400> 2990

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tgggtgaaga agcatatcgt gaacaacagc ggcgagcaga ggaagaaaga ggcaaatacg 120
ggaaaggcagt aaaagaagaa agagaaagga aaaaactgag tatcaggaag aaaagaggga 180
gtagatgagg aaagaaagat caaggaagta agagtaagag aaggagtaat gtgaatgaaa 240
gcagggaaagt atttgaagaa gagagtgtaa agcacgtacc tttgcataa tgtcccagcg 300
agtgaaagag gaagcanaaa gaaagaaaaa gaagtagcca ggtaagaccc gaagctagtt 360
gatcttatgc tgtccaagcg aa 382

<210> 2991
<211> 389
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-058-Q1-E1-H8
<400> 2991

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agagcactac agcaacttgt tgcgttcaa cacgatacg ttttatctca tcacaaaaag	180
aatatatttt atatgcctc ttcttctcat tgccaaaagt cctcactcaa gtggtcttt	240
cctagaaggg cgccatctcg tccttatct tgtcatcaag tattgaaat aaccccccac	300
aaacctgcag ttgttgcga ccaacttgt aaatcattca gaatagcaaa gagtcgtgat	360
agtaagcaac cttctcgat ggattccat	389

<210> 2992
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-058-Q1-E1-H9
<400> 2992

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ataggttgga acgtttggtc atccattgac tagtgaataa tactcgattc cgtatatttt	180
atctctttat tttctacttg tacataaaac tagttatatg tctggtagct ataaaagccc	240
tttgcacatct caacatttat attatttgggt gttggtgaga gacgagatgg caatctccac	300
tttgcctcga gaaagttagtg tcactatgac acccaatgtc ttgtcacttg aaatataata	360
gaacataggc aatatttcgt gctgcaaagg cacttgatgc tgaataaaaa a	411

<210> 2993
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A1
<400> 2993

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agcccacgca tccggccacg cgtcggccca cccgtccgcc cacgcgtccg tgaatatacg 60  
gcaacgacgg gctttgttcc atcgtatcaa ggtgttgcgt tacgaccggc ttggaggaag 120  
caaactatcc gaaaccagca aacaaatacc atattgttca gaaaccacgc aaagtcttcg 180
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aaagtttagt tatacgatacc ccttttcattt cagcaaaactt ccaaggatga cgccggaaaccc 240
gagaaacaat cgagtcaaca gggctccaaa atgtcaccaa ctactaggat tgcaggttat 300
atcttttctt ttactattac tatggcactt tttgcagtca ctctggcggc tactttgtat 360
cgctccttacc ttccgc 376

<210> 2994
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-A11

<400> 2994

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aagagatttc agttttggc ttttgataag tcagaacctt ggaagtatgg ttataacaaa 120
ctacggtatac ttcaaggcga aataaagaat aaaaagtggc tgagtcctgg acatattact 180
tcgaggaatg ataagaagtgcataaaggtt cgacacgaaa gtgacttagtg tgcttgtcac 240
aaggaggaag gtttgcaat gagagcccaa gtaatccatc aaaggagctg aacaaaaggt 300
gctttgaatt cggaacagtc tcttgatggaa aaataaagaa gagcggtaac tcaaaaancaa 360
ctggcaaata aataccctt ctatccatc tctttatag gtatgcgctc caaaaatagtc 420
acg 423

<210> 2995
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A12

<400> 2995

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gaccatcacc aagaattctt caggtacatt tggatgttctt ttccgagtgaa taaaacctga 120
tgtcgctgtt ggctcatcct ttatcgatgt gattgtatgg gttttgttc caccaccacc 180
aacttccgccc acaagtgcgtt caactgctgtt aacttctgtt cccatcacta cagttttcc 240

aagcagcgta accagtgcac caatctctac aggaattcca agtgggttta taagtactag 300
tgttcccaact agtggctg gtgttccaa tggagcttct attatattac ctcaagcttg 360
ctaaatcggt atagttgggt attgcaaata g tctcgctgtg tgtgtgttgg tgtgtgtgtg 420

<210> 2996
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A2

<400> 2996

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tttccagtca ctttacggag aagcagaact ggtaatgaa tacaggagtc tatcatgaga 120
ggcgccccaa aaagaaggga cttcacctg gtgcttggca agacgcgagt agttccaatt 180
ctgataaaaga aggtctccat attggcccaa actgtcaact ttagttgc tctgttgata 240
acctgaaaga cttttgggt cagcaagttt atgaacaact ccagaaagta tactcgata 300
atgaaagcgt tttgatgaag ttggatcctc tcgcgaagtt gttggaaaga aatcttgaac 360
gattatggag gagcgatgtt cctgtggtgc ccg 393

<210> 2997
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A4

<400> 2997

agagtcaaac cagaagttct tatggacggc gatcacacca ttgaagactc acaaagagt 60
acggagagag tttgtacga ggtatcat gcttacatc aacagcatgt attattagaa 120
gggactctt taaagccaa tatggttctt cgggttctg actgcaagga caaagcttct 180
ccaaagaaaa tcgcagagta tacaattcgt acgttacagc gtacttgcc agctgccgta 240
cctggcattt tcttttatac aggtggacag tcagaagaag aagcttccgt gaatctcaac 300
gccatgaatc aagtggagat gatcaagcct tggaaacttt cttttctta cggacgtgct 360
ttgcagtctt catgtctgaa agcgtggcaa ggaaaggcag agaatg 406

<210> 2998
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A5

<400> 2998

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aaaattgttc ttattggaga ttccggggtc ggcaagtcaa accttctcgc gcggttact 120
cgcaacgagt ttaacctcga gtccaagtcc acgattgggg taaaatttgc gacgaaaagt 180
gttcaaaacc gaagggaaga cattaaaagc acaattatgg gacactgctg gtcaagaacg 240
gtaccgtgct atcacctctg cgtattatcg aggtgccgtt ggagcacttc tcgtatacga 300
tatctcgaag aaggaatcct ttattggtgt agaaaaatgg ctaaaagagc ttctgtatca 360
cgcggatagt aatata 377

<210> 2999
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A6

<400> 2999

agcaaattga acaaattgtt gattcgctt gctttccca ggctcaagca tcgagcgaca 60
acctgcgaga gttttttttt tctgtgtggt aaactgaagg agacaaaacg gaaagggttgg 120
attgatcacc atgtccgtca acccgagtcc gtcagcgatc atatgtaccg tatggctttg 180
atctgtttttt gtttagcacc aagtcaactt aatcgagaaa agttaataaaa actagcactg 240
gttcatgatc taggagagtc tctgggttggatatcaccc cacatgtatgg tgtctcgccg 300
gaagaaaaga agaaaacttggataccgaaagcg ttttgcaaaa tacgagacga atatgtatcg 360
tcttgatc 375

<210> 3000
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A7

<400> 3000

agcgaaaaaa tgcagttgta cattcaacat catcaaatgc caaaggagg aaagaaaat 60
tcttcaaaga aagaagccac aagtaaacct gcagcagcag atgctacaaa gacgacagaa 120
aagtctggtc cggaagccaa gttgaaggga actggtgcat agaaacaata gaaagttgac 180
tatgcattttt cctgttatgt tttgtgagtt ctgtttgata gtttccagct attctttgg 240
tagtgaataa agagaaaaat ttttagattt acacaatcac cccacatgat ggtgtctcg 300
cgaaaaagaaa aaaaggaaac tggagaccga agcgaaaaaa 358

<210> 3001

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-A9

<400> 3001

agaaataaaac aaccaccatc aggaagaaca accattcaag gagtccgcgt cgaaagaagt 60
caacgacaag ttgcacaaa cctatgccga aagcgttgcc aaggaaatca tagaaagcac 120
cgtggagaa gagaataacg aacacacaaa gacagtggaa tggaccaatc aaatgtgtga 180
aaaaataactg agcaagttgt tggagctgca aaagccttccaaatataatag tctcttgg 240
tttattgcaa aagaaaggag ccggattcca tactgcacg acgtgttatt gggatgccga 300
atgtgaccaa tgctgtactg tcaaacatga gaccaatac ttgcacgtca taagcaccaa 360
ttaagcgcgg ttcaattcac tagtcaaagt atcattctag cccgcacaca aatatgttca 420
actcgta 427

<210> 3002

<211> 370

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B1

<400> 3002

aggaagaaaa gagagagaag aaagaaaaaagc agagaaaaac cgtactgaag accgacacaa 60

gtactcgagg agaaaggaga cccaaattaa ggtgagagaa tggacgataa ggaactaagc 120
aaaaggatat ggtatctgcg gttagaacata tgaaagaagc agcaccgact gtttagcaaa 180
aacacagcac tctgcagaaa agagaaaatg taaagtatag agtgtgcggc ctgccaataa 240
gtagagaaga aatcgatgaa agtgaardcg agtaaaagat gaggtataga gaatggcgg 300
cctaacagta aggatccaaa ggtagcgaag taaatagacg tttgaaaggc gtccagtatg 360
aaaggagaaa 370

<210> 3003
<211> 310
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-B11

<400> 3003

ccggagaaaa aaaagaaaaag aagaaaaaaaa cccttctgaa aaaccacaca agttctccaa 60
ggaaaaagg aaccanattt aggtaaaaaa atggacgata aggaactaag caaaaggata 120
tggtatctgc ggtagaacat atgaaagaag cagcacccac tggtagcaa aaacacagca 180
ctctgcagaa aagagaaaat gtaaagtata gagtggtcgg cctgccaat agtagagaag 240
aaatcgatga aagtgaaagc gagtaaaaga tgaggtatag agaatggcgg tcctaacagt 300
aaggatccaa 310

<210> 3004
<211> 343
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B12

<400> 3004

caagcttca gccaaagcctt cggccaaagcc ttccggaaatt cggtgcgg ggaattaagg 60
ctgaaaagga gaattatttc gttccggac cctgaaacaa acactcatat atacatatac 120
atatatttcc tatagatata gctattttc aaatggttc caaaaagacg aaaaaatcca 180
ctgaaacagt ctcttcaaga ttggctctcg ttatgaaaag cggaaagacc acgttggct 240
tgaaaagtac gttgaagagc cttcgtcagg gaaaaacaaa actcgtggtc ttggcaaata 300

actgtcctcc tcttgtgcgc tcacagattg aatattactg tct 343

<210> 3005

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B3

<400> 3005

gaccacgcgt cagggcaatt cgaatcatct acttaaagac accttttcc ctttcctacg 60

cacgaacgct cgtaatatgt tgtttcattt ctctgttaagt ttatgtacga aaattataga 120

aaccaaagaa actgcataatc ttgaacgata caaaggctt tggatcctt gggaaatagt 180

ccttagtgga ttcagtgaaa gttgttactg ttccccggag gtcttgaa ccatcagctc 240

tagtatagtg acttttgcatt acaaactatt ataaaagtat ttcacggaaa gtattgaaat 300

ttttgacttt gcagtttgca gtcgtccagt aaacactaga ttactagtta aaaaatgtaa 360

acgttaagta ataaaataca tggtaaaacg aaaccaa 397

<210> 3006

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-059-Q1-E1-B5

<400> 3006

cgctgggtgt ataggagacg ttggctggta tgggttcga tttattctat catttgg 60

atacgatcgt aaagttatcc cggtgtatgc agttggcaat gaaacggaag gaggatcgat 120

ggacgattgc gcaggagttg tggagttga agagaacatt actgcacact ttgactgtgg 180

attcacaagt ggttatagac aatgggtga atgttagt acacttgaa tggtagatgt 240

ggaacgtttt caaggagctc ccgttcctaa taatacagaa gagaaggatc ccaatttgca 300

cttccagttt cgtcaacttg gagaagaag aaatggccgc attgaaaggg tagaaaggaa 360

aaccaaagac atttgggttg caaatgtgg gngaaaaca ca 402

<210> 3007

<211> 282
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B6

<400> 3007

cccacgcgtc cggagtcaga gtcattgtt cgaatgttg aaattggtgc cggtagaagg 60
agtgcattta gtttgtattt ggatgaagac gaataagaaa gtgacgaaga ggaagaagaa 120
gaagacaaag aggaagaaat gggcagttag tatggaatga tagtgattc tgattccagt 180
agatttatga gttatgacga agaagaagaa gatagttcag atgacgaaga tcaagtctct 240
gatgttccca tgtttggcct gatcgatcat gaagaagaaa tg 282

<210> 3008
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B8

<400> 3008

agcgtatgca ggaaagaaga aggtaaagga agagaaggaa gaagcagaga gggactatga 60
gcgagaaggt ggatagtcga tagggaaaaaa gcccataagc caagataagg tatcaaagta 120
aagaaagaag gaaaaggaga agaagagagg taggccttag aagcagcaaa ccagagagga 180
aagcgttaaa gcatgaaaga aaagaaatcc gaaaaagaag agaaaaaggg aagaaaagag 240
ggagtagatg aggaaagaaa gatcaaggaa gtaagagtaga gagaaggagt aatgtgaatg 300
aaagcagggaa agtatttcaa gaagagagtg taaagcgcgt acctttgca taatgtccca 360
gcgagtg 367

<210> 3009
<211> 439
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-B9

<400> 3009

cgggtcgggc cacgcgtcag cccaaggcgtc cggccacgac tccgcccacg cgtccgcaac 60

atcatccgtc agaaatgcaa agtaaatgga gatatggagca aaaagaataat gaagctccca 120
aagatgttga cgaaatccaa gaacaacaac ttccgtttat ccaagtgtgg aaacatggcc 180
actcagatat aactgtttgt agaatattcg gagtgtgtat tggctcaaaa ggtctccgtg 240
tattccagaa tactagtaag gcaaaaaaac aacttgaata ctgtggaatc aaacctcatc 300
tttatgaaag cagtggagtt gaagagtggt taaaaatatc agcaatgtct aactattcaa 360
ttcaacttga ccaagaactc cgttcctaatttgccttaag gaacacatata gccccatttc 420
attgaagatg taacccccc 439

<210> 3010
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C1

<400> 3010

agcccacgcg tccggaatcc agtgttttc agcttaatct ttgcagtgtc tgttagttgca 60
gtggcatgtc ctgtgcatt gggttagca actccttctg cattatgac tgcttctagt 120
gtcgctgttc gttatggaat attgctaaa gaaagtatcg tagtacaata tctataaccac 180
gctgcctgta tcattttcga taagacagga accctgactt gtggaaagcc aaaggctca 240
gaagttcaag gtcttaagat agttcaggt ctcgatattg acaagataat aagtttggtt 300
gctcaagtgg agagtcactc agaccatcct tatgcaaatg ctattgtcg ttacgcggaa 360
gaaaactcgag gtttgcatgt ttc 383

<210> 3011
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C10

<400> 3011

agatcattcc agtgctattc cagtgaacaa aaacggcaat gactttgtatgcaccc 60
cgctcaatgt cctcaagata cttactactt tgacctcgat gataaatccg ataaccc 120
catcaaattt tattggagat gggcacccga gtttccgat attcaatgtc ccatgaaagt 180

tccttctggc tctgttcccg gtcacaatta tagtttcct agtggtccag atactgttc 240
atgtgatatac aatatcatgg acgctggtca atggaaattt tttgcaaagg atgccaatgt 300
gtctactgca ggctattctc aaggcataag taatttgagc aaatgttct cttccgataa 360
gagtgcggaa tacttttggc ttgccgctta tgcatggaca cttcccaac tgaaaatc 418

<210> 3012

<211> 317

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C11

<400> 3012

ccggccaaagc cttcgccaa cccgtcgccc aagcgtccgg gaagaaagag gcaaatacgg 60
gaaagcagta aaagaagaaa gagaaaggaa aaaactgagt atcaggaaga aaagagggag 120
tagatgagga aagaaagatc aaggaagtaa gagtaagaga aggagtaatg tgaatgaaag 180
cagggaaagta tttgaagaag agagtgtaaa gcgcgtacct tttgcataat gtcccagcga 240
gtgaaagagg aagcaaaaag aaagaaaaag aagtagccag gtaagaccgg aagctagtt 300
atcttatgct gtccaaag 317

<210> 3013

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C12

<400> 3013

agtggaaagaa gtcgcctact ttggtgccaa gtacgaacga ttccttggat aacaacttgt 60
tgcttgactt gggtaataa ttagtattta caagaatggc tagtgtttcg ggtttccctc 120
gaagaattat aaaggagacg gaaaagttac ttcaggatcc agttcctgga attagtgctg 180
ttcctcacga agacaatgct cgttatttca atgtgattat ccagggcct gattttccc 240
cttatgaagg aggaacattc aagttggagt tatttcttcc cgaagactat cccatggctc 300
ctccccaaagt tcgtttcttg acaaagatat atcatccgaa tattgaccgc ttggaaaga 360
tctgtttggc tatattgaaa gataaatggc gtccagcatt gcaaatacga actgtt 416

<210> 3014
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C2

<400> 3014

agcccacgctccgcattgt tgaatttcc tgttcgttt acttgtcttt ttgttgagtt 60
atcatggcac gaacaaaaca aacagcacgc aagtctaccg gtggtaaggc acctcgaaag 120
caacttggcaa ccaaggcagc aagaaaatcc gcacccgtaa ctggaggagt gaagaagccc 180
catcgttacc gtcccggtac tgtcgccctg agagaaaattc gcaagttacca gaagagcact 240
gaacttctta tccgaaagtt gccttccaa aggttggttc gtgaaattgc tcaagacttt 300
aagacggacc tacgttcca aacttcggcg gtgactgccc ttcaagaagc ctcggaagca 360
tacttggtcg gtttggta agataccaat ctttgcgcaa ttcatgcca 409

<210> 3015
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C3

<400> 3015

cgaccacgctcagccccacg cgtccgtttt ttttattttt cagttcgtc tatttgcgt 60
tttgcgttatgt tatcatggaa ccataaaaat aggccgcgcg caagtctact ggtggatgg 120
ctgctccaaa tcacttggta atcaaagcaa caagagcgat ccgcaccctt aactggaaga 180
gtgtcgaagc cacatcgta gcgtcacggt actgtcgccc tgagacaaat tcttctgtat 240
cacaaaaacga ctgaacttct tatcggaag ttgccttcc aagtgcgtat tcgtgaaatt 300
gctcaagact ttatgaccga cctacgttcc caggcttcgg ccgtgactgg ccttcaagaa 360
gcctcgggag catacctaatt cggtttgtt 389

<210> 3016
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-C4

<400> 3016

agcacgttca taggagtcaa tataacgttc ttcccgatgc attatttggg attaggagga 60
atgccacgta ggataggaga atatgcggat ggatatgagg gatgaaatag gtagcgagt 120
tatggatcga taataacggt gttatcgatg ttatactgga tgtggtttgt agtgaagagt 180
tgggagaagg gtaaggagag tgagttaaagg tggaaaggaa ggagtataga gtggggatg 240
agtaggatag gttatcataa ctgaaaggag gaggtgatgt tagtgaaggg gatgggtaa 300
ggccgagtan gaggaggtaa tggaaatttg 60 atccgtgtgg tggtggttcg agtccaccta 360
ccccagtggg ggtaatggag aagagaagaa ag 392

<210> 3017
<211> 433
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-C5

<400> 3017

tccggctcg acccacacgt cacgcccacg cgtccgccc 60 cgcgtccg 60 cg 60 tgtctccatt
tgctgtctct cgacgctcat tcgatcg 60 tcg 60 cttgttagca acctaagaga 60 cttgtttttt 120
tctctttgc tttctcttaa ctacggtaca ggtattgggg 60 gtttggtaa 60 agtattgcca 180
aaggaaaga gtcacttacg ttc 60 catggta 60 cacgtaa 60 agc 60 tcgtgatggg 60 ggcttgc 60 ctt
ttgcaac 60 ctc 60 caaaaga 60 ac 60 ctggg 60 agt 60 cactt 60 cca 60 ac 60 aat 60 tgg 60 gag
aactgtgttt 60 cgg 60 tctgc 60 ga 60 at 60 agaaac 60 ga 60 agaaaac 60 cg 60 gaa 60 aac 60 gtc 60 a
agaaggaaag taccctcta 60 gcttctatgt 60 ttgg 60 ttagt 60 ga 60 ct 60 ttc 60 ggaa 60 ac 60 agt 60 ga 60 ag
gaaaaatctg tgg 420 433

<210> 3018
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D1

<400> 3018

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gggagtaaag gcgaagaaa gaaacccaaa gcaattgacg ggaatcgaa aaaggggtgg 120
atcacgtaaa ttaatccgtat taaaccgaga acttacctc tccaagaagg tggtgcacgg 180
ctgtcgaaag aacgtgctgt gaagtgagag aacgtacgag aaagccaagt gaggaaaaga 240
aggcaagtaa agggcggccc gagaaaggaa agggcgtaag acgtgataca gacttaggaag 300
aaaagagaag agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtacgg 360
aattcacgag gaaggagcgt gaaggaagga ggaatccca 399

<210> 3019
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D11

<400> 3019

ttcgtacga acctcgtt aagagtctgt tcaaggccac agtgctatgt tgcaagctt 60
ggtgcttaac catccacgtt gagctttat ttttatctct ggtcttctc gtataggaca 120
ctgataggca aaaacctcggtt acacttggga cttcgaggt ctatcgtaat aaacactaaa 180
tttgtaaagt tatctgctgc ttgcagtcga aacttcagga tgccttgtt tgaggcatca 240
gctggtgctt ggttgactaa gattctcca aaaatatctt ggataccctag agaaaaaaa 300
tccatccaaa aaatttctaa gccaacccagc caatcaagac aagggcaggg aaccacgaca 360
gtgcttgctt gttgacacag 380

<210> 3020
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-D12

<400> 3020

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ggtgttatta taatatgcct tcttacaag aagatttgct tcattccagat cccgcgggtgg 120

aggcacgaaa acacaagttg agaaggcttg taccgagtcc caactcgaaa ttcatggacg 180
tcaagtgcggc aggttgtttt cagattacta ctgtcttag tcacgctcaa acgggtggta 240
tgtgtggaaa ctgttctact gttcttgta aaccacagg tggtaaagca agattaatgg 300
aatcctgttc gtttagaaag aaagcggatt gagtggaaagt gnacaagtcc gctgtcatag 360
aaacttaaga ggaatccaa caaaaagtct agtatccacg agtt 405

<210> 3021
<211> 145
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D2

<400> 3021

caagccttcg gaaaaaaaaa aaggaaacaa atcaacaaag aaaataaaag aaaaaaaaaa 60
aaaaacaaaaaa acaaataaca gaaaacaaga aaaaagggtt gatcaaatgg ggggaatccg 120
aataaaacga taaaccttac atcgg 145

<210> 3022
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-D3

<400> 3022

cgcgtcaacc cacgcgtccg ataagaaaaa agggagtcat tccaccaacg gactaaaggc 60
gcaagaaaaa aacccaaaag cactgacag gaatcgcaac aaaagggtgg atcacgtggg 120
gggatccgct taaacccaaa accttaacct cggccaagaa ggtgttgcac tgctgtccaa 180
agaacgtgct gtgaagttag acaacgtccc agaaagccac gtgaggaata caaggcaagt 240
cgagggcggc ccaacaacgg agacggcgta cgacgtgata aacactcaga acaacccaga 300
acacatctac aaatgaggtt aaacacgact aaaaacgacta gaccacgtac ggaattcact 360
acgaa 365

<210> 3023
<211> 408
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-D4
<400> 3023

aggggaaaat cccgttcaaa ttaggctaag ggtgcttggt attaccggca tggttctttt 60
cgagtttgac gaagaagact tgctgtcagc agatgacact attttaacg tgggaaggtc 120
tggagatgag tggtaagg agttgagttg ggaagaaagc aaccttttc gagtagcgtc 180
ggaacagagc ttgagcggct tggcaagtac ttcttggatt gccgagtttgc actcgaggaa 240
gctttttct ggagtgccta agaaggaatt taaagaaggt ggcgagacga cagtgattga 300
ttatgtca aacgagttt atccaacctc cgcccctaga atatccgaac cttgtgcgtc 360
gtctagctat tcacacgcaa tgcctccaac agaagcgtcg ttgaattc 408

<210> 3024
<211> 406
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-D8
<400> 3024

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aaaaaaagtat tcttgcgtt agaaaaaagg ttccaatatt tggaatatct agaaaaaaagt 120
gcgttggatc ccaataact cgtacctgctg tggatcgag acaatgtgca aaatactttg 180
ccgttggatc ccctttgtt cgagcgttg gaacaagaac atgtggtaga tattgcagaa 240
gaggatttcg atggccatat agatgatagc attcagcaca agatacagga actagaaaaa 300
tggAACAAA aatggaaagtc gttggaaagaa ttggcatcga tggttgcac cacccaatga 360
cgangaggaa aggagacacg ataataagac catatttca tttttc 406

<210> 3025
<211> 291
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-059-Q1-E1-D9
<400> 3025

agcaaaaaat ggggaaagga caagcttga ttcaaacaaa tgaatggttt tcaggttat 60
cgggattgaa cggtataaac actgatgaag aagaaccgac tttgtgattg ctgcgtcact 120
gtagtcttt attttgtgaa tgttcacagg gtgccattca tgctgttaa tgatggagtt 180
gttagtaata attgttgaat atattttagg attttagtaa tctaaaaaaaa agccatgtg 240
tttcttgaaa gggaaaaat aaaggatgtg acgaaattat ttgtcttgc g 291

<210> 3026
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E1

<400> 3026

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aatattatgg cagacacaga actacttgca gcgattcagg aagtttaaa aaagtctctt 120
atggttgatg gtgtgacgag agggattcgc gaatccgttc gatgcattga agccggacaa 180
gcccaactag tcattcttgc ggaagattgt gaccaacctg gaataccagc gttggtagaa 240
gcgctttgtg cgaaacaagg tgtcaacttg gtaaaggtac cggagcgaaa acaacttagga 300
gaatgggctg gcttgcgaa gattgatcaa gaaggaaatg ccaccaaagt agtagcttgc 360
tcttgcgtgg tagttaggaa ctttggagaa c 391

<210> 3027
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E10

<400> 3027

agcaaaaaac ataaaatatg tctttcttt tagaactttt aaaagaaatt cgctggagag 60
gactttgggg aactttcaa gcagccaaaa tgaatagact gggtacaatg aagtactttg 120
tcggcgaaga cgagttcac aaccgatact ttcaaaaagt aaacgatgtt atgttgaagg 180
atcggtgggt ggaatatgtt tctaaggaa tcaactcctga tccttattcg ttacctcctg 240
agtggtagta gaatacttgtt ctttcgttta cttttctta ttttcttaggc atgcctggct 300

gcatcatatt atagatgagc caccacaaa agtaggttc cagagaccaa agtatcaagc 360
acagatgtc gcaaaccgt a caggcacaac agt 393

<210> 3028
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-E11

<400> 3028

agcaaagctc ttccttatat tctttgtct tggacaatgg ttgcaaagac tgctctgagt 60
tgccttttc tctcttcct tatcgctgcc gcagttgcag ccgacgtagt ttcagaggag 120
agatggggat atgctcagca aacccaacaa cagcaacagt gccacaagaat atgtaaacag 180
tatgcatact atcagagtcc agtctgcact tccgtAACCA cacagagccc atactggacc 240
caatgctcga agactgtgca aaccttgctc ccaagccagt gcagtactta tacccaatct 300
cctacatgga cctattgcag cacctacacc accactagcg taccatctca atgaaacaag 360
ggccttgact acctataactc aaacctgctg tgcttatgcc caacanactt cctatgcagt 420
cag 423

<210> 3029
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E2

<400> 3029

ctcgaccaac cttcagcaa aatatttacc ccggaaacat aataaatatg gggctgataa 60
tgtaaaaaag gctcctaac aacatgatgt ttgacatggg catcgatatt cagaacatgt 120
atgtaaagtt cattttgac gagaatcaca agcaaaagaa aggcgagtt gtgcaagagg 180
tgaaaggaa gcttgatttg gtggagaagt ttatgaagcg tcaagggaaa ctttatttgg 240
caagcagtga acctacgttt gccgattatc tcatgttga ggtttggac gtgatcaaga 300
gacaacagga agatatttg aaagatttcc cggtgttgc a aggtttctat gaaaagatgg 360

gtagccgtcc gaacattgtt gcgtatcgta aatccgaccg tttctatgag aaacctgtt 419

<210> 3030

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E3

<400> 3030

aggtcatatt gaagggtttc ataatattcc attggatcaa cttgcttcca gagtgacaga 60

agtaagtaag ataagatatg aatttgtatt aaagtttga gatgattaga ttcaacaaca 120

agtcaaccaa ggaaagcgca' ttttggtgat atgtcgctgt ggcaatgcgt ctcaacaagc 180

agttgccta ctgtccagtt ggaatattca tcctgtatac gacattttg gtggtataga 240

agaatggcgg aaacaatgtg atccttcact tccttattat tagatgataa cagcatactt 300

tctttatttg gatgccacaa gtttctcgac gatggaaaca catcgatgac aaagttgtgg 360

atgtgtttca ttttgtttaaga cagtcgtgga aaagttccaa catcgaatgc 410

<210> 3031

<211> 279

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E6

<400> 3031

cgactcaagc gtcacgccc a cgcgtccgaa cacgcgtccg aaattgagaa gacattggaa 60

tgggcgcgaa acaataagat tcttgccaac tagagtcgt gcaaccatta ggaaagattg 120

tgttataata ataccagcga acaacggagt aaataatgtt tgatgagaga agtggaaagg 180

aagcttgatt tggtggagaa gtttatcaaa cggccgggaa caccttaggt tccaaggcatt 240

gataccaggt atgcccatttta acacatcttc gaagtttc 279

<210> 3032

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-E9

<400> 3032

acgcgtcaga taaaaccacc gaaagtata tacctgttga ggactccatt atttcagacc 60
tggctgaaaa gacacttatg tggtgtattg aattattgcc tgaaaatgag attcgcgaga 120
aaactttatg tttgaaaaca attgcaagtt cggtggacgt tttatcaatc aactctaaga 180
aattgttgc agttattcct tctaatttga atgcagtaaa taaggagttt acgacttgg 240
acgtgagcgt cagctctgaa cacccgaaaa gctcaatcaa cgacgatgga cgacgggact 300
cgcttgtctt tagttgtcgc caatcagaag aagaatcgct ttctaacaaa caatacg 357

<210> 3033

<211> 408

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F1

<400> 3033

agacaataca gaagttgtgc ctgttcaga tgtcggagaa gttccaagtg tcgtgtttca 60
ttttacccaaa atcgcaacc tggaaaacgt gaatgcagga gaattctgtg atgtacttgg 120
aatagtgaag gatgtttcgg agttgtcttc tgggtttct agaactactg gcagtaccct 180
ggtaaaaaaga acagttgttt taatggacga taccttgaag tcaattcgac ttactttgtg 240
gaaagataat gcagaaaaat tactcaccc tacgtgaaggt aatcctgttt tgctctgtaa 300
aggagttcga cgccggagact ttaatggaat ctcattggat gccactactc agtcctgttt 360
tgaagtaaac cctgatatta aagaggcaca ttagttgcgt gggggta 408

<210> 3034

<211> 413

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F2

<400> 3034

ccggctcgac cacgcgtcag cccacgcgtc cgctgacggt tactgtaccc aagaaacagg 60
tggagaaagc agaaagccaa aagatagaga ttgcgaacga gtagagcacc ttgagttgt 120
ttgttgttta tagataaaca ttgaggttgt gttttatcc ttgtaaaaaaaaaaaaaaaaa 180

aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa 240
aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa 300
aaaaaaaaaaa agggggggcc ccccaaaggg ttcaaactta attaaccggt aaaggaaatt 360
taaaacccct caaaaatggc ccccaaattc aatttcccgg cccctttttt aaa 413

<210> 3035
<211> 402
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F3

<400> 3035

agagaaattt ctacgcatac tttaaatagc catgtggatg tcggtgtatc gtgacaagat 60
cgtggattga tcaacaacca acgagagcaa gcgagctact atttggcgtg tcatacatgag 120
cgagttggtt cgacctggtc gtttcttga tagcagttt ggagacttgt tttcatggc 180
aaccgaccct ttttatcgag atatctggtc tatcacacca cgtagtttg aaggtcaaac 240
atggtcgcct aggatagacc tttagagaa agacgactgt ttcttggtga aagcggaaagt 300
acctggagta ccaaggaaa agatcaatgt agattgaaa ggtgatattc taacgataac 360
tggggagaag gaagacgaga aaaagtccga tgaagaacgg ga 402

<210> 3036
<211> 269
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F5

<400> 3036

agccccacgcg tccgcggacg cgtggcgag gcggcaaaag gaacaaatgg ttgtttctg 60
tctcttctc actctcgata tatgtatata tatatatata tgtatgtata tatatattat 120
gcactgttgt catagtgtct gtgtaaaagc aacctattct ttatcgagac aacaacagca 180
gtgaccattc tcactgaata aacttggta caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaaa aaagaaaaaa aaacaaaaaa 269

<210> 3037

<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F7

<400> 3037

agcccacgctc cccggcaaaa ctgcctggg ataatgtttt gagactattt gaggcaattc 60
gtcttttgcat ttgaaagggt tggaaagaaa tagagcctaa aaagttccg ttgtctctt 120
gaaactgttg aagagatttc tttgtcctat atatgcagtt gtaagagttg gaggtattt 180
aaccaaactc gagagacttc gaggagactc ccttttacat agtgcactt agcacgcacg 240
caagtaattc tcccaaata gggcagttgt tacaaacgt atcgaagaaa ttcaaactcg 300
atcgtaacg aaactaagat cagggagctg aaatcgtgaa tggtgacgt ccagaggaga 360
cttggtaaaac aaagtttagc tatcatgcaa cttttca 407

<210> 3038
<211> 353
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-F9

<400> 3038

agacaacttg gccaaagacg gttgtcaaag tggcggtgg ggttgagtg gcatagtgtc 60
tcgcgttcag gttcacacgg caatggaagc gctttaaagc tataccgacg ttaggtgaaa 120
acaagtcaac taagagatgg ggtgcttctc aagtaaagac ttccaaagca acggaaagaa 180
aaagtacggt gtggatttga taggcttgg tggagccgga gcaaccacta tattgtactt 240
ttttaagctt ggaaagcaaa tgatgacaat gccaacccttggatgtata cgaaaaactgt 300
gcagtacgga gatagcgaac tggtgatatg ggatatttgg gactcgaca aag 353

<210> 3039
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G1

<400> 3039

gaccacgcg tcagccccacg cgtccggcca cgcgtccgcc cacgcgtccg atttgagaac 60
gagattgact cgtttggaga gaaaccttgg cggaaaaag gtgccgaact aagtgattat 120
ttcaactatg gtttacgga agatacttgg agagaatatt gttagaagaca acaaatgatg 180
agactttatt ctcaaagtct gatgccatt cgaactttag actctggcgg tccttccat 240
aataaccaac ctcattatta tcatcatcat aataataata tggactcatc cggtaacca 300
agtcgtaagg taccacgagc gacacaaaac agaagataca atcctccgcc tccttacaaa 360
agtaacctga aacttcccaa tgaggcaacc gaagccgtgg actatgaaa acccaacgaa 420
tac 423

<210> 3040
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-059-Q1-E1-G10

<400> 3040

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ttatggcaac ctgaaattag ggagctcatc agtcgttca agacagaagt ttcccttgaat 120
ggaaaagaga gaactttacg gtacattggc tcaatggtag ctgatgttca tcgcacactg 180
cttaatggag gaatttttat gtactttcg catcaacaat ggccaaatgg aaaattaaaa 240
ttactttatg aagcttcgcc tttggcattt attatagago aggctggagg aaaggcgtca 300
actggcttg aaagaatatt ggacattact cctacaagtg ttcacgatcg tattcaagtg 360
gtgattggtt cctatgaaga tgtagaattt gttgaacagc tttacanagg accttcaaca 420
agtgatccta 430

<210> 3041
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G11

<400> 3041

tacccttca gaagatcaag tacgagtctt gctctgctca atatgaagtt caaaagatca 60

agcagcaaca atgtactatg acagtctctg aacaatacat acagcccgat acttgctaca 120
agtatgtccc tgaacaacaa ttgggcctc atacttgtt caagtattat tctgtacc 180
agtttattga aaagtgctat cctcagtatg caacaacgga gaaatgtgt aagtatgagt 240
atgttccata tgccacttct acaccttac catcggtatc tccaagttat actccttc 300
cataacaaac aacttccggc taataaaaaa gccgaaaact ggatagattt ttgaagtgtc 360
tcgtgttcaa agaaaacatg a 381

<210> 3042
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G12
<400> 3042

agccaacgca tccggagaga aaaactattt tgcaagcaaa tgaggaaaat attcccaa 60
taataaccaa tcctcgtgg gtgaagttca tagtacgtgg ctatttgc tatattcgaa 120
aagaaggaac cttgtggat actgcgagtc cagaggacaa caagaaggtg actaaattgg 180
atgaaaatcg ttgggtttgc gatgctacag gaaaggagta ttcttattgc aactaccgct 240
atattttatc cggtgctata caagatgcga ctggttctt gaatgcta 300
atgtcggttc ccgcctaatt ggtcgccag ccgaagattt agccgctata tatgaacgtg 360
acaaagcaga atttgcata ttaattgatg acgttcttt taagccgttc atcttcgaa 420
tac 423

<210> 3043
<211> 108
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G2
<400> 3043

agggcaaatac caaaaataag ttggcaaaaa aaggtccggg tcccaccccg taccggcaag 60
aaacttacccg gctttggcac gtaactttc caaaggccgg ccccccaa 108

<210> 3044
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G3

<400> 3044

gaccacgcgt caggtAACAA taaaatacaa acaggcaaaa actgcgtctc aggactcaca 60
agaggcagta tataaggcaa gaaatttcac gggattacgt ttcaaagaac gagtcctcta 120
aatgtggca ggaaagtatc tgaagaacag acttgtAAC accgtacctt tgcataatgt 180
cccaccgagt gatagaagaa gcaaACAGGA agataaagaa ctatccatcg aaagacccga 240
atctaattga tcttatgctg tccaatccaa gtaacgctga accagtatct gtggAACaaag 300
atttggtata catggcataa cgggtgatat gccaaacaaa gctattgata tctggtaacgc 360
ctcgaaagct atataagttag cgt 383

<210> 3045
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G6

<400> 3045

cgaccacacg tcagccccacg cgtccgcAAA tgtggacttg aatttagcga tgtgttttag 60
tttttccccct ggttctcgac tcctgttgt acgacaactt gagtagctt ctctcatTTT 120
gtcaaAGCAG tcttcttgtt cttcttgcgt ccagtctttt gttcgcgact agcctgcttg 180
atttgccttt taAAAAAGTT acagagtgtat gtatccgccc ctatttgtt tgTTcccttg 240
aacaaAGAGA taggttgttt aaagcaagat aaggaAGCgt ttgatggact tgaAGAAATT 300
ttatATGCGG tgcACCGCCA cgaaAGCGCC ccaaACGAAC gtccttgcac aagagAGATG 360
gacggtctta acGCCAACAG ccgaggactc tttgtatAGC aagtgcctgt ggcttt 416

<210> 3046
<211> 407
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G7

<400> 3046

agcggacgca tgggcggacg cgtggcgga cgcgtggcg gacgcgtggg cggacgcgtg 60
ggttacattt tgggttgtgg agtaagtgcg cttggcaaca aactaaaaga tggagaaga 120
atcatcgag cttatatgtc tgacgctact gtacgtctc tatttagtgtt gaaaatgtt 180
ttctacccta caataacttc gttctctatc actattgtgg gtcttatggg taagagttcc 240
gacggtattt gggttcacag tggccacgcg aaatacgaat aatggtaat aaaattttcc 300
ccttcaagta aaccaccacg gcataacttc ctattgcaag tatatcatgg ctgttagcagc 360
tattggtttg gttatcagct tcttcagtt ttggatgca ttccctcg 407

<210> 3047

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G8

<400> 3047

tgcaccacca cgtacgtgtc atttcaatga ttggctaaa cagaactcga aagaagtgtat 60
ttcttaatac gtatgaattt actcaaaatt tgtctaccga caacttcagg agtataacta 120
gccataataa ttctctttgc ttcttagtaca cggaggcgaa ctgtatctct gtccaaaata 180
acttgcgcga ttctcaacct taaatgagag atggaaggaa cggctaaatg taaccctttg 240
taaacttcca tctctgcact gttccagaa taagttcaa gacgttctac tctaatttgg 300
aaaccgcgttt ttctccaaa atattccgtt tgcgtccatcc agtttagtagc aatcaactggc 360
agttcgtaat atattgcctc catgataaga cgtgcccagc ctccccctca tggccaaa 420

a

421

<210> 3048

<211> 357

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-G9

<400> 3048

cacgcgtcag cggacgcgtg ggcggacgcg tggggacatg tcgaacgaca atcagtctga 60

taagagcact ttgaaagaag cgaggagaa gctgcagagt gcagttcata ctggaacaga 120
gaaagttct caggtgttga gcgacgtcaa ggaaactgtg acggagaaat acaaggaatg 180
gacagcacca aaaagtagcc aagaagaagc aaaagaaaaa gcacaagaag ccaaagaaga 240
ggctaataaa gctttaatg ctatgaaaga aagtgcgagt gccgcttcag aggctgcac 300
agagaaaagca gaaaaattt agcaggagtt gaaggagtga agatacacag tagttt 357

<210> 3049

<211> 414

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-059-Q1-E1-H1

<400> 3049

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ggtcttctgc tggtaagttt ggatttaag gagctaaaaa agccacacct tttgcagcac 120
aaaccacggc tgaaaaagca ggtaagcaag caatagaaca tggaatgcgc caaacagaaa 180
taagaataaa tggcctggc tctggtagag agactgctat tagagctta caagcactgg 240
gtttgaaaat aacaaccatt aaagatataa cacctatacc tcataatggc tgcaaggcctc 300
ctaaaagaag acgtgtttaa aagaactaga tataatttat gtttattttat tatataatta 360
tatgaaaaag ttacagattt aatgtctaga atcttttaat canaacccaa caaa 414

<210> 3050

<211> 439

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H10

<400> 3050

ccccacgcgtc agcccacgcg tccgccacaa ggcccacatca tgagcggaga agggacacaa 60
ggacaattgt ttccctggaa tacaaaacaa gtaattgaga atccgaggca gaataacgt 120
gatcgaccca gtgttatgt caatatgaca gatgacgctg ttagttggct gaagaatact 180
tttcaaggag ttttggaaacc aacaaatcct gttgcttcga acaacagtaa taataataat 240

agcagtggt a tggaaactac ccttactgcc aacattgtac agcaaattgt aaagcgactt 300
gctacgatgg agtcggagct tacagagttg cggtgcaaaa atagcgctct tgaaagagaa 360
cgagaaaattc ttcttatgga gaatgagagt ttacgcaaag ttttggaga atggaaaaaa 420
ggtggaaagac ctgtatgaa 439

<210> 3051
<211> 339
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H11

<400> 3051

accacgcgtc agccacgcgt ccgttcgct catcgac aacgtccctg gcaaagtcaa 60
gtagaacctg cagcagaaga gcagaaacct acctacgacc ccaagtgtt a tctgtcccc 120
ggaaacagtc gtgcgggtgg gaagcaaaac ccgaaatatg acgaaacttt tttgtttaca 180
aatgattttg ctgcactgtt accagataca ccattccctt aacaacaaga tggcgctgat 240
caagatttgt taaaagttaga aggagtcaag ggaacctgta aagttatttg tttttctcct 300
cgacacgact ggactgttagc tgaaatgtcg gtggactct 339

<210> 3052
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H12

<400> 3052

ccacgcgtaa gccaaacgcgt ccgcacgcgt gtccgttaaa tactaacttg gttgcttagt 60
aaatttgcattt gttatgaaga agctattcaa aaccccagga agatgttct tttcttaacc 120
aagacttttc aaagttagtt tcaccgaaag gccatatggc ttcgagaaga cttttgtggc 180
actgcagcta tatctcgtga atttatccga tcagactttg aaagattgc tttttggagta 240
gatatacattt ctgttagctat agactgggtt ctcaaacaag gtttatttagt tttttccgtct 300
ggtagtgata gacttgagct agtagtagca gactgttagag agttaggatggaa taaaagatcg 360
tatgacgtta ttctgcctt caactatagc t 391

<210> 3053
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H2

<400> 3053

agattatgga gaataagact gtaaaagaac taaaattcct tgggtccaa ccaacaactc 60
tctcaaaaaa ctaaacacaa atagccaaat aactggtcaa atatctaccc cacccactgg 120
ttgtgctacc tttcgaactg gagcaaggaa aggttccgtt accaaacata cccacaccca 180
cgaaaaacttt agactatact ttttaggata ccaacttaga acaattcgca aaaccatcaa 240
gatgaccatc actgaacaac tccagtttgtt gatgggtgc acatagccca cggccgtatg 300
cacctttgtt tccccaaatag aagcagcaac tctagctatt gtgcttgctt gagagtcgtc 360
cccaaagtgg tcgctttca ttgaccaatt gtacgaaagt ctccactt 408

<210> 3054
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H3

<400> 3054

agcccacgca tccgagttag ctcaaaatgt tttaaaagac catcggcat ccattttcac 60
atttgtgttt gttgaagagc agcatgatga agagcgctat gaagttcttt gtattttagca 120
ttatttggc aaatgttgc ttactattc aagcagcaac ggtttggag actttggagt 180
cactgaaata tacagagtat cttgacatgg taaaggctgc aggccctggac tcgaagttca 240
acgactctgc tggtacatgg actgttttg cagcaaacaa tactggagtc aatgccacct 300
tggcaccaaa gcacttggtt atttctaata tcacatctaa tgcgacggag agcaaagaca 360
ttgtgaaata tactttgtac aaccataactc ttttgcaga tgatat 406

<210> 3055
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H4
<400> 3055

cgcgccggt gactttgata gatatcattc attttgccta tccatccaat agcacaattc 60
tgttatccga tgctcaatat tctgcattcc gggacaattt aaaagcgatg ggagtgtcga 120
ataattttag ccacatagga gaaaagaaga aagaaaagaa tactcgattt gttgctgttg 180
gtttgttgcgaaactgtaaa gtatttcata cgagaagagg agactgtatg gcaaattttg 240
agttgagaga tgcgactgca gtttgcctag tcacaatgtt tccacgagta tatgctcgag 300
tatctcatct tttgatggaa aatgaacact ttgcagttcg tttaaatgtg gagtgggaga 360
ctggaaattc cagtcaattt attgtcaaga acttggctcg act 403

<210> 3056
<211> 353
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-059-Q1-E1-H9
<400> 3056

aggtagaaag aacgtgctgt gaagtgagag aacgtacgag aaagccaagt gaggaaaaga 60
aggcaagtag agggcggccc gagaaaggag agggcgtaag acgtgataca gagtaggaag 120
aaaagagaag agagctagaa aggaggtaaa agaagagtaa aaggactaga agaggtacgg 180
aattcacgag gaaggagcgt gaaggaagga ggaatccaa gtaatcgagg aagaaaaaagc 240
ttcggtaaaa gcgtgaacgg atttgtaca cactgcccgt caagttctgg aagtgtgcta 300
ggaataagca ggaaagtatt tgaagaagag agtgtaaagc gcgtaccctt tgc 353

<210> 3057
<211> 336
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A1
<400> 3057

cccacgcgtc cgggagggtgg ttcaggagat gaaagttacc acgcaaggga acaagaaaag 60
ttttgccta ctgccaacat tgcaagaatt atgaaaaagg cacttccacc aaacgcaaaa 120

atagcaaaag acggcaagga taccgtccag gaatgcgtt cagagttgt aagtttata 180
acgtcagaag caagcgacaa gtgtcagcgt gagaaacgaa agactataaa cggtgacgat 240
attttatggg caatgaacac gctgggttc gacaactatg tagaggctct taaaatctac 300
ttggcaagat atagagaagc tatgtctgca gagaag 336

<210> 3058
<211> 349
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A3
<400> 3058

gatcacgcgt cagtaacttg gctggttctg gtgcattccc gataggttga tgttaacaaa 60
gaagtttagct ttggagactc taccagcttc tgttatggaa cttgtggaag acgagtatgt 120
tgcaatcgcg ttattgctac ttttgagca taacagagga gactcattt tctttaaatc 180
atatttggac atattaccct cacacgacga aatcaacccc ttgttttgtt ggtcagatga 240
agatttactg ctgttacaag gcagtccaac tttagctgtc tgtcagcaac tgagagaaaa 300
acttggaga gagtatacat atctagagaa ccatattatt ccacaaatc 349

<210> 3059
<211> 169
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-A4

<400> 3059

cgcgtcaggg caacattgcc atttcctttt ggagggaaaa cacaagacaa caatgtctcg 60
tcncaagtgt ttctttgata ttgctatcgg tggacaacct gcaggaagga ttgtattcga 120
gttggttctcc gatgtcggtc ctaaaaccgc ggaaaatttc cgtgccctg 169

<210> 3060
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A6

<400> 3060

agcccacgctg tccgggtgctg ctcttggac ttgccgccta tttctctata cagttgtgtt 60
agcattttca gcaacaataa ttggacttga tgaaaggaag gcagataaca tatggAACGA 120
tgccctatat tatcatggaa aagtggtaa cttttgtgca tattcggttt cgtctgtttt 180
tgaagggtggc gaccatggcg catgtaaata tgtgatggct ttggcttcta tcagcttgat 240
tttagtttc ttcttttgtt tggccttcctt tgtcgacgca ttgtatccaa ttcttacaaa 300
gttctgggtt gtggagcttg gtatcaacat attccttact atgtgggtt gggttgggtgc 360
aattgtggtg actgcaaagc g 381

<210> 3061
<211> 372
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-A7

<400> 3061

agcgctacat aaaggagcac caagataata atgacacaag taaaaacacg tcgaccgaga 60
aaaccacttc cagcaacgt aagatagcac ttgaagttga gaagacagaa tattgggatc 120
aactctacaa aaacaacagg aacaaagagg aaccaaagga accagcatca gaaaatatga 180
aaggaagtgc gtcacaacaa gttccaagt caaatgttgg ttatccttg gaagacccac 240
aggcagtcca acaggaagag gagacgccgc aagttgttga cgacaatgag acaaactctc 300
ctcatgcaat tctacttgaa gctagcaaac tgcaagcaaa atatggagat tgtgataatc 360
ttccaaacca ag 372

<210> 3062
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B11

<400> 3062

ccacgcgtac ggattccctt ggcagcgatg aatcaagttt caaagatgg agagatgccc 60
ccgataagag tctatgagat tgtaacattc tattccatgt tctatcgta acctataggc 120

aagttcaatg tacaagtttg ctgtacgact ccttgcata tacgcgggtgc gtatgatatt 180
cttcgtgcc a tacaggacaa gttcaatctt gaacccgggg gaaacagtcc agatatgtatg 240
tttcatctt aagaagtgg a atgcttagga gcttgtgtga atgcgc当地 gatgcaagtg 300
aatgatgact actatgaaga cttgactgtt gaaagcgcca ttcgagtatt ggaaaatctg 360
cgtgataaca agcctgtgaa agtcggcct cagaacggtc gtcatc 406

<210> 3063

<211> 360

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LTB190-060_G1_E1_B2

<400> 3063

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gaggcgggct ctccgatgct ctgatgaatg gcaactttt ctttatctct tt当地
ttctgtcgtt ggactttgtc cgaatatttgc actggggttt atagaatatg acctttcgat 180
attttctcca tgcatgtaca acatgtgtac ataaatatac caactttgtt tgaaaacatc 240
tttatggacc agtaactgtt ggaatgcctc tcccatcaaa agactaggac ttgggtccaaag 300
caatgattgt gggagaaaata ttgtttccat tagttgcttg ggcttcagta tagttqatgg 360

<210> 3064

<211> 353

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-01_E1_B3

<400> 3064

ggtcgaggca cgctcagcc cacacgtccg attcatcg ttgtcttggg ttgacaaaga 60
agactggaag tttttcgtt gtggaagaag acatatttg ttgaaccag ttggaaaagt 120
atgtttgaca gatattattg atcgactcat tgtgtcgtag ctttcatgct ctgcgtggcaa 180
acttttacgt gtacgtaata agaacactcg tcagtttca actttgagtg tggaaagagga 240
gcagcgctt gtgagggaat ttttggcgc tattttgggt ctttcttatt tgccacaaac 300
aaaagtttgtc tctgtttcg cagagttct tcataagctt tcccagtgc tct 353

<210> 3065
<211> 368
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B4

<400> 3065

aggaggtata cctagtgaag tatggggacg attacgtaca cctgttttag gaattgaaga 60
ggctgaagat tccatcgaaa ttgctcgaaa acacgc当地 ttggaccctt ttcttgactc 120
ttatgtgaaa tacagatgtt gctctttc cgagttggtc tccgaacgaa agcaatttga 180
ctgtgttaact tgtctggaag tagtggaaaca tgtggaaaaaa cctcagcagt ttctcaactt 240
gttggaggca attgttcgac cacaaggaaa gctcattatac tccacgatta agcgcacggt 300
cacttcttgg ctaactgcga tatgcttggc ggaaaacgta ctgggtgga taacgcgtgg 360
aacgcatac
368

<210> 3066
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B5

<400> 3066

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caaagagaca aagttttga acaattggcc aaagttcgag agttgagaag aaatcttggc 120
gtccttcttt caaaagcacc ttctcacgta caggtaaaca ttggctgtga ctttatctt 180
gacggcgagt tggatgacga aggtctttta cttattgaca tggaaagaa cgtctttgtg 240
gaaatgcaac caaaagaagc tctagagact acaatactga gagaaacttg gctggagagg 300
ctcggtaat attatacgaa aaggtggaaa gattgagttt agctcggtgg attgctctac 360
tgact
365

<210> 3067
<211> 379
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B6
<400> 3067

cccacgcgtc cggccacgca tccgcccacg cgtccgaaag cagttgagca cagcaatatc 60
gatatgtcaa gtggctggaa taactacagt ggaacggaag gtaatggaa tgctggtgc 120
ggtaaggaa agaacaagga taagaagact agtggagaac ttgcaaaaga tagttaaag 180
ggtttggaa tggcagcctt gtcagcggtt aagctggttt atcgccgtgg caagtggtgt 240
gtggataagg tggaggcgc cattgacgac cacaagtcaa aaggaagtaa gagtgccgt 300
ggtgaaaatt cacgttattc tcgttggaaac gtaataacgt ggatagaaac agaacgagac 360
ggtttttat atttggtgt 379

<210> 3068
<211> 97
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B7
<400> 3068

aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaagg gcagaagaac 60
aatagagata taaaattaaa tacacgaaca agggagg 97

<210> 3069
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-B8
<400> 3069

agcgtagaac aatatgttga tacctaaaaa gaaccgaaac gcagtttatt cttttatttt 60
atcgagtgga gtaattgtgg tgaagaagga cactcatgcc aaaaaacact tgcagcttga 120
cgttcctaatttgaagtta tgaagatatg tcagagtctt acttcgcggg gatattaaa 180
ggaacagttc agtggggttt acttttatta tactctgact gacaacggaa tcgattactt 240
acgtcgatatttgaatcttc ctgtggaaat agtccccgaa actctaaaga agcctacttag 300
accccccaggt gttcgccctt cgtcgtttcc atcagaaggt caagaaaaga ga 352

<210> 3070
<211> 395
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C12

<400> 3070

agcacacgcg tccgggttat cgtgtggaag atagcgtcat tttattcgat ggagagtgta 60
acttgtgtaa cgatctgta aacttgcct tcgaccacga ccgacaaggc atattcaagt 120
ttgcagcggtt acaaagtcc gttggattgg cactgttcaa aaagtatcgc ggacccacag 180
acctttcgtc gctggttctc attaaaaaag gtcgaatgct tctgaaatcc gatgccgtac 240
tacgaattgc agagttgtt gacaatcaga cccttcgtat tttggcagtt gcaaccagag 300
tgggtttcc gaggtggttt agagattggg tatatacaga aattatatcc aaatatcgac 360
gtcaaataatt tggagagacc gatgtttgtc gtctg 395

<210> 3071
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C6

<400> 3071

agaggaacct tggttggag atttccagat gatattttagt atggctatac tagtaacgtt 60
ccagggaaatc cggtggattct atgtacttta ggaatggcgc aatattatta tgagttggca 120
gcagagtggt tgaaacatga aaagattgtc ataggaaagt ggagcaaaga ctccccaga 180
catttgaggg ttatgcctcc tcctccctc cctccctc aatcttctat atcaacgacc 240
attactggaa aagctatttg tagttatgtt tctgcgtat tagaagaagg agatcgctgta 300
ttgaatgcta ttcgaaagca tacagttccct agtggatgtt ttacagagga gattgatcga 360
tatactggtt t 371

<210> 3072
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C7
<400> 3072

gagccattgg ggcgcacaaca ctgggtgca gtgtgccag tgcgttgcata agaaacataa 60
caagtccaaa ctttttggac tctactttga tttcttatcta gactggcaat gttaatagaa 120
ctgagagtgt caagttaccc ctttttgcgt gtagagagta acaatgggt tgcttacga 180
agacggcttg tctacgcagt cgtcgcacaca agaaaaaaag acagaccagg tcagaagacc 240
aatgtgact cgataaaagag taaacaagcg tagttcttgc aacggagcaa ccgctgattc 300
ctcttctaca tagccagctg gttgtgtcaa cgtctcctgc gtaggttggc tacggtataa 360
c 361

<210> 3073
<211> 147
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-C8
<400> 3073

gaaagtttc tacaatatcg atttcgtttgc taaaacatgt ggtttccttc cacagcactc 60
gcatgtgaag atagatataat gctgactagg gttcgagcat ttgcataatata gatgaagtcc 120
tgagcattgg gatgttaagct atacgtt 147

<210> 3074
<211> 159
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-D2
<400> 3074

ccccacacgtc cgagaagggtt ttgcacggct gtcgaaagaa cgtgctgtga agtgagagaa 60
cgtacgagaa agccaagtga ggaaaagaag gcaagttagag ggcggcccgaa gaaaggagaa 120
ggcgtaagac gtgatacaga gtaggaagaa cagagaaga 159

<210> 3075
<211> 253

<212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-060-Q1-E1-D6
 <400> 3075

gcaagaagag aagagagcta gaaaggaggt aaaagaagag taaaaggact agaagaggt 60
 cggaattcac gaggaaggag cgagaggaaa gaggtgtatg atgcaagcaa agaagtgacg 120
 cagtagatca gagagtaaca catgcaagta cgtaaagcga accggtaat aaagaggtgt 180
 gaaagagtgg aagaacatga aagcacagaa gaatgtaaga aatggtttaga gtaaaaacca 240
 taaaggaagt aaa 253

<210> 3076
 <211> 387
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-060-Q1-E1-D7
 <400> 3076

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 tcctgttagag catccagaga agtttggaaa gtttgtatg cagccttcaa aaggtgtctt 120
 gttctacgga cctccaggat gtggaaagac ttacttgcc aaagcaattt cgaacgaatg 180
 tcaagccaat ttcatattcta tcaaaggacc tgaactgttg accatgtgg ttggtgagtc 240
 agagcacaac gttcgtgaag tttcgacaa ggcacgacaa gctgcgccat gtattctcg 300
 cttcgatgag ttggactcta ttgcgagatc tcgangatct tctgcangag atgccggtgg 360
 tgcaggcgac agagttatca atcaaat 387

<210> 3077
 <211> 421
 <212> DNA
 <213> Cyanidium caldarium
 <223> unsure at all n locations
 <223> Clone ID: LIB190-060-Q1-E1-D8
 <400> 3077

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tgtgcacaga ctgaagaaaa cgtccttca aaagatgatc tttgttcgtt gaaggaggct 120
tctcgtaact ttattgaatc gaaacaaaaa gtcgtttac atagtgaagc taatagaaac 180
tgtcataaag tggctgtaac tggaagctgg agaagagaag aggctccatc gaaccacagt 240
gtgttcgata cagcttacga aagtatagtc agtaatctac gagatgaagc tagcgccgac 300
caaagtgaag aattcaagag gctttaaag tccatagaga catttgaaga aggagaagta 360
gtttcctcag ttcttgcaac cgatgagaaa cagtttatnt tgccccttc acaaaagcta 420
c 421

<210> 3078
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-D9
<400> 3078

agcacacgcg tccggaaaga ggtcgaacca gtcgtgaaac acttggagct gtccgtggaa 60
actttcgaa gcaatacacg tcgttggcc tcttgcttt tctccattct gaggagacta 120
tacaaggctct cctctcaagt tgcatgttcc tttggcagt cgccacatca ccaaactact 180
tccccttctt cttcatctgc acatggggaa cagtcgtgga gttctataag ttcttctgta 240
cagatatgc cgatatctag aaggttata ggatatatgt tgcaagtaac gactctgttt 300
atggccttgc tcatttagttg tttccgtata gttggctatt ttctggggaa tatgaaaaca 360
gaaacgatat acgtttcaa cagagtgagt gctc 394

<210> 3079
<211> 206
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E10
<400> 3079

tcccggtgc ccccacgcgt acgaatttaa gaattcattc cagaaaacctt aacttgggaa 60
gtgaaattga ctacgaagca gtaatcaatc ctgaaaaag gttaatgga acaaaattgc 120
caaataattg gacaaaggcg ggtttgtttg cccctcctgg aaatagagac aaagtgagac 180

atgaagacat tatgaacgcg aattcc

206

<210> 3080
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E11

<400> 3080

agaatgtgct gcctgccaaa tagtagagaa gaaatcgatg aaagtgaaag cgagtaaaag 60
atgaggatata gagaatggcg gtcctaactg taaggatcca aagtagcga agttaaataga 120
cgtttggaaag gcgtccagta tgaaaggaga aacgagtgt a cactgtcta gtcgtccaac 180
tcagcgaaac agcaataact gtgaaaatgc agttaaactag cagtaggacg gaaagaaccc 240
ataattcttg actagatagg ttttagagagg aaagaggtgt atgatgcaag caaagaagtg 300
acgcagtaga tcagagagta acacatgcaa gtaggtaaag cgaacgggtg agttaaagagg 360
tgtgaaagag tggaagaaca 380

<210> 3081
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-E12

<400> 3081

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tctttttgtta gaaactaagg ctttacgtca taaaacccat acattagtgt tcttgtggca 120
cacttgcctca gatttggta ataataacca aactttgtcg cggcggcag aaaatgacca 180
aggcggcagc ttccaccagt gtaaagcaac tggccaaa aaactcgac gataagaatc 240
gaccgaataa agtgccttct aatcaaataa ggtctcggtc aactataaac cgtctaaagac 300
tttatcgaa aaaagcatat caatataata agcatggaaa acgtgtatca ggagcangag 360
attataactag taacatccca cagcctggtg 390

<210> 3082

<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-E5

<400> 3082

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tgtgcagcgc ttctcaatca cttgaatggt ggcaattggt aaaggaaaat gtagaccctt 120
gcacaccaac agataaacca aggacaagtt ctaaaaagga caagacaacg cttccttaggc 180
gaactccatt gtcggatatt acagagttgg tgtaggttc caacaagaaa taccaagata 240
atacgcaaca acaaccacaa ccacctacaa gtttttaccc accattgccca ccanaataca 300
aagagaaaacg actcttgctc ctgcataag accatggatg aaaatgtgaa ta 352

<210> 3083
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E7

<400> 3083

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tacctactcg gatgacatca acttgcgaag aagaagaagc agttcaggac agtctatagc 120
caccactagg gaatcctttt cccgtaccag caacagtct agaggcagcg cgttgggtga 180
cccaagaaca atggttccac gaagacaaag aagaaggatt actgctcgaa gaaatgacgc 240
agtactcttg tctcttagtc gacttatagt ggaaactggg aggcgcgcgg attgggtaga 300
tgtgagcgt tcgtggatg aaaagaaaat ggaaaccttgc tgggacgccca tgctttggc 360
gccaagacag caggggcttgc acgaaacttgc tggaga 396

<210> 3084
<211> 275
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-E8
<400> 3084

gttttcttgg tagcagttgt acattcaaca tcatcaaatg ccaaaggag gaaagaaaaga 60
ttcttcaaag aaagaagcca caagtaaacc tgcagcagca gatgctacaa agacgacaga 120
aaagtctggc ccggaagcca agttgaaggg aactggtgca aagaaacaat aaaaagttga 180
ctatgcacgt gcagtcctgt tatgtttgt gagttctgtt tgatagttc cagctattct 240
tttggtagtg aataaagaga aaattttta tattt 275

<210> 3085
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F10
<400> 3085

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gaatgcaatg ttttaggtt cattggctcc actgaatagc tgtgcacgac tcatattgc 120
tttgcaaga gagggtctta tattccaaa gatattcgcg acggtgata taaaacaaaa 180
tcctatagta tccaccgctg tagttgctt tcttgctgcc atcgtgtctc tcattgcagg 240
tttggcgatg ggaacatata atggcttgt tatgttgta acaacatcat cgcttctct 300
ttatgtgggt catattattt ccaatcttac tttgggtatt ttctatcatc gtcaaaagca 360
gctcaactgg a 371

<210> 3086
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F2
<400> 3086

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gcccggccca aggcaaccca caacttgtct tgtgtatcgc aacacattcc ataaaaaaca 120
aagaattcat tacttgtctt tttatccaaat ccaacaactt tccgctctct ttccttgtct 180
atttctctcg tatgaatatc ataaggatag caaagaatct catacttcc agaatcgatg 240
tagaaaaagat gttgcgaatc actcaaccaa gtaagaccat tgctacaaca tattccgaa 300

aatatttgc gcgatgttat cttacccaaa gatttcctct tggtgcttac gcgtttccca 360
gtgtcatcct tgcggtgtcc ttgagaactc ctgaaggaat aaaactttcc tgtgcttc 418

<210> 3087
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-F4

<400> 3087

aagtattgca agctgtcgaa agaacgtgct gtgaagttag agaacgtacg agaaaggccaa 60
gtgaggaaaa gaaggcaagt agagggcgcc ccgagaaagg agagggcgta agacgtgata 120
cagagtagga agaaaagaga agagagctag aaaggaggtaa aagaagagt aaaaggacta 180
gaagaggtac gaaattcacc aggaaggagc gtgaangaag gaggaatccc aagtaatcga 240
ggaagaaaaa gcttcggtga aacgtgaac ggattttgtta cacactgccc gtcaagttct 300
ggaactgtgc taggaataag cangagaagt agaagagagt acgaaaagaa gaaagga 357

<210> 3088
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F5

<400> 3088

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gacatgttga gctggctaca aaaaaaccac ttgctagttt caatattaca agtgtcaaga 120
atgtttactc ttatcgagt cacagtgcgt cttttccctt aatcttcctt tttcggtgtc 180
gacgagtgcg tagacatgtc gtcttggtaa cgcaaccctc tattgacact ctaggtttcc 240
tgtgcagcgt cgaactacct aaaacgc当地 gcagcaaagt cccaaagttt cgactctttt 300
tgtttctccc actagccata ttgaacccaaa gtgtttgtca ccacttgcca cgacaacgaa 360
tggttcactc tcgtgtgttt tctcttgaca aaactcgaag act 403

<210> 3089

<211> 309
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F6

<400> 3089

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ctgtcggtgg ttagagactt ctcgattctc cagatgtgcc aaagccaaga ccgtctcggt 120
gcgacgtagt tcccaagtgtt cacactcttga aagaggtgtt tcgatgaact acagtcctta 180
ttcgataact accgacaagt cagaaggaca tattgtcccc ggtactttt caagatttga 240
gtttcctgaa gggccaatca acggtccaaa cgtcctgaac cctaacatac ctgaccctac 300
agtgtccaa 309

<210> 3090
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-F7

<400> 3090

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gcaggctttc ttccacacc aaaagttgca gcagaagatt ggtcagacac gttatgggg 120
gactttacga gagagggcgt caaggacagc ttccgacacc tattttgcc aaacaactct 180
ccaggccttg acccgaaaaa aactcagttt ttggctcacc tacagaacct 240
cagttagtgc ctgagtgggtt tcctttcag gacagttctt cggagaccaa cgtaaattgg 300
gtcaatttga acagctcccg tggtcaaaat aacgatacga cttgttccgt ttcaag 356

<210> 3091
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G1

<400> 3091

agcccacgcg tccggagaat gcttgcggag gaagacaaat ctgcgtatga agctcgctt 60

tcacaatata tcaaagctgg ggtcgaccc gatgacttgg aggagatgta taaacaagca 120
cacgagcgta ttcgagcaga tccttccttt gagaagaaac caaagcgtga agtaacgaag 180
catcgagctt ttgcgtcagag aaaactcact aaagaacgtg ctgtgaagtg agagaacgta 240
cgagaaaagcc aagtgaggaa aagaaggcaa gtagagggcg gcccgagaaa ggagagggcg 300
taagacgtga tacagagtagac gaagaaaaga gaagagagct ag 342

<210> 3092
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G5

<400> 3092

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agaataaccac agtgatggac ttgaataatg tatacacact ggtgaggggt cctcaactta 120
cgttggccat ctaagcacat tctggAACAC tggcattggc tcattggaa tcgaaagctg 180
ctttgaaag ttttgagcac ttaattgcag ttgctaaaga gggatgtcta catatattgg 240
atgtcatcca ttccaatagt gagcaataat ctattgcac tgattgcttc tcgcatact 300
atttcaataa agtgatccta ctcttaatca tcatcatcat gactatcctg tgat 354

<210> 3093
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G7

<400> 3093

cGCCAATCTC gactgtatag cagaagaggc tttcctttaa gtggtatgtc cggtgttagag 60
tccttatcgg actgaggaag gaatagcggtt tggcacata taaagggttt tcgcaagtgt 120
tagcttggaa gtagattgt aaactggcaa acggaatgtat tcaccacttt cttataacct 180
cttcaagtgg tttggTTTG tattccacag agtttacgac tactcttgca caaccacgct 240
tagttggttc actgctaaca gcacttgtgg aatTTCAAA gaaaaatgtc tctctgcctg 300
tttcatatat tgaacttgag aaagtcgccc tggcggttgc tgtcagttag 350

<210> 3094
<211> 360
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-G8

<400> 3094

aggacgtcgt cgactcatgg cacctaagaa gacttcgaaa gtagcacctc ctcctgaagc 60
tctggttaaa aaagaaaaaa aggagaaaaaa gaaagagaaa aaccctcttt tcgaaagcag 120
acccaagaac tttggattt gtggagatgt acaaccaaag agagatgtct ctcgttttgt 180
tcgttatccc agatatgttc gtctcaaag acaacgaaag gttctcatgt cgagactcaa 240
ggtgccacct gcgatccacc agttacgca taccttggat aaaaacgttt ccaaacagct 300
attccgcttg ttaatgaaat atagaccaga gtcgagggtt gaaaagagaa agcgccctacg 360

<210> 3095
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-H1

<400> 3095

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gttgatgaat attgtaaact atttcctggg aattttgtat tcaaattctg tgctcgctca 120
tccttgtttt ctgaacagg tcgagaactt gtaacggttc cataagaaat ggaatccaac 180
ttgctcatga aattgtcttt ccatttctcg ctcgtagaat tttcagtact tgccaaagaa 240
gccttgcgtct cgaaactga atgctccttt cctgatacat tttcaaattga aacctttcc 300
ttcttggaaat taatcggtgt ttctaatgat gtattcaaag atgtattcca tgtcgtagaa 360
gactgcttn caacaaaaga ca 382

<210> 3096
<211> 206
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H10

<400> 3096

ccacgcgtac gaaagaaaatc cgaaaggagt agaagaaaag agagagaaga aagaaaagaa 60
gagaaaagcc gtactgaaga ccgacacagg tactcgagga gaaagatatt aggtggagtg 120
tcctaggtga cgtggaagga attgttgttt tgatTTTgtt tgtgtgtatt caatgtataa 180
gcaagcaata aatagtttt tcctac 206

<210> 3097
<211> 325
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H3

<400> 3097

cgcgtcagct caaacgtccg gttgggcctt ctgggtggaga tgccctggat tgagctacgt 60
agtggcaact ccgctgtctt gagagacata actgcaagta ctgaaaaccc tgacataaaag 120
gggagaacga cgacgaatct cagtacctgt ctgaattctg cacaaggaaa tggtaggtt 180
gacttgtccc tgcagtgtac cttgacggat aaattttcat tgaagcttct cgacaatcac 240
tttaaattgg cgtgtttac tgataccttg ttttagttt taccatgctt atcctttgtt 300
attactggta atcgtatagt ctgta 325

<210> 3098
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-H4

<400> 3098

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ggtccatctg gagctggaa aagttagtatac atacaaaagc tgaacaaaga ttaccctgat 120
cgaataggat ttagcgtaag tcacacaaca agaccaccgc gaccggngga acaaaacgga 180
gtagaatact atttgtttc cgagaaaaaa tttaaaaaaa tgatagagaa tagtgaattt 240
atagaatatg cgaatgttca tggaaattat tacggaacac gtttcaagc agtagagagt 300

gttctcaata gangaaggct gtgtgtgctg gacgttagacg ttcaaggatg ccgttccatt 360
cgtcgagaa acatgaa

377

<210> 3099
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-060-Q1-E1-H5

<400> 3099

ccccacgcgtc cgatcgacga tgacatttct cacaaaaaaa gatgtggAAC attgtttcga 60
tgtgatatgg ttttagcatat ttgatatcca atattcttgc ttatgttctt tgaatgcctt 120
gaaccagatg tgtcgaacct acagcgtgtc tgtgccggct ggcgtatgact ttgaatttcc 180
aaactctcct tgcttaagtg actggatct cgttcatttt gttccata gcaacgaacc 240
tgtatTCgt gtatttcaca agtgcatcat gtgctgctt tttagaacana gaatagttgt 300
ctttcgggat ggcctttgtt tactaaaaaa ttccaaacagc tggttgttgc tggatgcttt 360
gcgtgatatc acaaaaacatg aaaaggacaa agaaaaacccg ttct 404

<210> 3100
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H6

<400> 3100

aggagaaaagt caaccagatg aaaacagaac gtggcttgc tcttacggat atattgcgtg 60
aaatacataa aagaatatttgc acaaggaata tggcagtccg agcgaagaca tattttattgg 120
agaaaatttgc tgaaatagaa catcatcttgc cttttggctg ttctgaaaaaa ctccagctt 180
gttctttgat tggtgctttt caaatcatga aggcgttgaa agtgttggat gctcaagttg 240
gaagtttagta ttccatgtaa gaacattata ctatggac gaaggattca tctatataaa 300
tattgcaaaa ggacacaaag caatctttt gtgctcgaga aacatataata tacataacttc 360
ctgtgtta 367

<210> 3101
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H7

<400> 3101

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ttgtcatttt tggcgttgt ctgactttcc aacattggac acttgcaag acgtgtgctg 120
tcatttacca gcctccttgc gatatagttt acgtcaggta tcataaacag gcataacacc 180
tgcatttgcg taccaactcc acgtctcccc atgaatctgg tcccagcgtt tttagatgcct 240
cagtcacaat agtcatagcc atagactcga cgttgctatg tacaaggcgtg gttttccaag 300
gaacttgagt catgtgtccc ataatttagat ctcgtcacac tcgactcgct tg 352

<210> 3102
<211> 140
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H8

<400> 3102

cgcgtttttt gtcagctcac gcgtccgccc acgcgtccgc ccacgcgtcc gaaataaata 60
aaaaaaaattc aatggaaatc atataaagaa aaaaaaaaaaga gggtaaaaaaa ttcaaagggt 120
taaagggttt gatgcagtaa 140

<210> 3103
<211> 129
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-060-Q1-E1-H9

<400> 3103

ccacgcgttc cggaaatagg acagctcaat agcagattgg ataaggagtt aatgatgagt 60
atacagttat gatacttaac ggtagtgtat acgaaatatg gatgtattaa ccgagtatat 120
taaggaaat 129

<210> 3104
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-061-Q1-E1-A1

<400> 3104

aggaaagaat gagtaagaaa aaagggagtc attccaccag gggagtaaag gcgcaagaaa 60
gaaacccaaa gcaattgacg ggaatcgaa aaaggggtgg atcacgtgga ttaggccat 120
aaaccgagaa ctttacctct ccaagaaggt gttgcacggc tgtcaaaga acgtgctgt 180
aagttagaga acgtacgaga aagccaagtg aggaaaagaa ggcaagtaga gggcgcccc 240
agaaaaggaga gggcgtaaga cgtgatacag agtacgaaga aaagagaaga gagctagaaa 300
ggaggtaaaa gaagagtaaa aggactagaa gaggtaccga attcaccacg aangancgt 360
aaggaaggag gaatcccagg taatcgagga agaaaaagct tcggtgaaag cgtgaacgga 420
tt

422

<210> 3105
<211> 338
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-061-Q1-E1-A10

<400> 3105

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ggacaatggt tgcaaagact gctctgagtt gcctttct ctcttcctt atcgctgccg 120
cagttcagc cgacgtggtt tcacatgaga gatggggata tgctcagcan acccaacaac 180
agcaacagtg ccaacaagta tgtaaacagt atgcatacta tcagagtcca gtctgcactt 240
ccgtaaccac acagagccca tactggaacc aatgctcgaa gactgtgcaa acctttgtc 300
ccaagccagt gcagtaactt tacccaatct cctacatg
338

<210> 3106
<211> 397
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A2
<400> 3106

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ttcttctcca gtaactcagt tgcaaataaa gaaaagtggaa ataagaccgt cgtgtggaga 120
acggatggcc tcaaacaagt tgtggcttc ctgaactaga caaggctta ggaggtggta 180
ttcccataag ctccctgttt atattgttgg aagacgaacc taccactatc taccagtaag 240
tattgccctt ctgctgcaat gtattccaat aaaatataatc aagatctagt tttagatgtaa 300
aaatgaaaaaa gaacagtaag aagagaaata caggtcacga attcatgacg aaagcacctt 360
gaaggaagga agaatccaa cttgcccagg aataaaaa 397

<210> 3107
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A3

<400> 3107

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atagagtttc ggcgaagaga gttaaagaac gtttggaga agagtgcaga aatttggag 120
acgggggttc aagagacgag aatctcctta aagacctgga ggaggagaaa aagtcactgt 180
tgccgtacat tcagagactc gaggaagact tgcggtgccc aggagagggaa gctttttctt 240
tggtgagaga tgaagcacat tagaaacacg tagaggtggg agagttggaa ttgttcgggt 300
tccatgtaat ccgtaagagc gttctggaaa aggtgtcttc tgaagaatag atacctacga 360
aacctgtata ggtcgccac aacggaactt cgggttcaaa agaataaata gtatTTTtat 420
tgtaaaaaa 428

<210> 3108
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A5

<400> 3108

ttccggctc aacgcacgcc tcagccccacg cgtccggcac aacagtagca actattcgaa 60
aacaacagta tgttcagaag aagaatatgt agatatattg aacaaagtta tcgtcgatag 120
cgactgggt gaccttccaa aattgagaag gaaaactagct tcgttgagg aaaggaaaca 180
accaacaacc acgccaagg agacaagagg acaaacaggt gactggctca ctcaaagcgt 240
gccatcgaca tggagtactc cacaaggatgt gaatagtaac tatagaacag tggatgacaa 300
aacggaaaaa gatatctaaag ggaacaaccg gcctttggaa aatttttc ggaatatta 360
caccgaaaaa caactattcc tttgaggtgt tggtaagaca ggaagaaaaa gataagagaa 420
g 421

<210> 3109
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A7

<400> 3109

cccacgcgta cgccggacgcg tgggcttata ttctttgtgc ttggacaatg gttgcaaaga 60
ctgctctgag ttgcctcttt ctctcttcc ttatcgctgc cgcaatgtca gccgaggtag 120
ttgtcagagg agagatgggg atatgcttag caaaccacaa aacagcaaca gtgccaacaa 180
gtatgtaaac agtatgcata ctatcagagt ccagtctgca ctccgttaac cacacagagc 240
ccatactgga cccaatgctc gaagactgtg caaaccttg tcccaagcca gtgcagttact 300
tatacccaat ctccctacatg gaccttgc agcacctaca ccaccactag cgtaccatct 360
caatgcagca aaggcggta ctacttatac tcaaacctgc tgtgctttag cccaac 416

<210> 3110
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-A9

<400> 3110

cggctcgacc cacacgtacg aaatgactct gtatggtcta cttctacagc ttctcaagct 60
ctgagtgctc ttccaaaccag tgcaccaact ggagcctcat ctagtagcag tagtagtgca 120

gtatggttcc ggagacgtgt cattcttggc gcaacattca atcagtcgt atcccttca 180
tcgctttcca ctggatccca taattttaca tcatttagtat gattgaattt gaccatcacc 240
aagaattcgt caggtacatt ttaggtcct ttccgagtgg taaaacctga tgtcgctgtt 300
ggctcatcct ttatcgatgt gattgatgga gttcttggc caccaccacc aacttccgcc 360
acaagtgcgtc caactgctgt aacttctgtt cccatcacta cagtt 405

<210> 3111
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B1
<400> 3111

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tttaggttaac aataatgcag atattcgtaa agactcttac tggaaagacc attacgcttg 120
aggtggagcc ctcagatact attgagaatg tcaagtcgaa gatacaagac aaggaaggta 180
ttcccccaga ccagcaacgt ttgattttg caggtaaaca gttggaagat ggtcgactc 240
tctcagacta caacattcaa aaggagtcta ctctccactt ggtcttacgt ctgaggggtg 300
gaatgcaaat attcgtgaag actcttactg ggaagaccat tactcttgcgaa gtggagccct 360
cagacactaa tgaaaatgtc aagtccaaaga tacaggacaa ggaaggattt ccccccagacc 420
aaca 424

<210> 3112
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B2
<400> 3112

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tcactgaaga agacttcact ttacgtcaat gtctttctgt tttttccct gggttcgcag 120
tttctttctt cgacaacgtt ttggttatag agaagtgttt cttagtgcgatcaacacta 180
ttttggatgc acctccttcc aagtgcgtt agtcgctt gttgaggctt tgcgttcaa gttgcagatg 240

atcttctcta cttgacaaac gcttctattt cctatcatag aaataaagag tccagcgatg 300
tttatgaaca ggtggttcat gttcatgaga gaatttggatc ccgtcttcct catgctatta 360
tagacgatcc ggatggaaaa aagtcgcgag agtttaaag attctgaact tcc 413

<210> 3113
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-B3
<400> 3113

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cggtccaaca gcaactgaac ttgcacgtt gcttggaaag ggtggcacta tggcgctta 120
ggcaaatgcg tccgggaaac cattttgtat tcctactact ctatttacaa cacaagatat 180
ttcactgaaa ggattctcgta tgcttaattt gttaaagtcc aagtcagagc aagatgtgaa 240
gaaaatgttgc caaatgtca cacaatgtat ggaaaatgac cagttgaagt ttggatcgaa 300
aaggaaaaag ttggaaacaac tcgaaacaac attagaagcg ttaaccacaa aagaaacctt 360
cacaggaaag atcactatit ttagttacca aaaagggaga gatgtacttg agtggtcgtt 420
gaa 423

<210> 3114
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-C1
<400> 3114

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atggcgccaa tatcgatata gaagatgtgg atttggatcgaa gatcaacgag gcttttctg 180
tggttgcctt ggcaaataatg aagatattgg gtttggatcc atccaaatgt aatgtgtttg 240
gaggtgcagt agcatttagt catccacttg gctgcagtgg tgctcgaata gttgtactt 300
tattaaatgc actaaaacat cgccaaggaa agatcgagtttccgcatt tgtaaccgaa 360

ggcggtggc cgtctgctt gttttcaa acgaaataaa ttttttatt tttgct 416

<210> 3115
<211> 330
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-C10

<400> 3115

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gcaataaagg cataaaactcc atttttctta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa agaaaaaggg aaaaaaaaaa aaaaaaaaaa agaaaaagaa taaaataaaa 180
aaagaaaaata aaaataaata aaaatatatg gggtggtcga gtctataggt taaaattta 240
gttagtcttc tatactagtt tatgggtgta caaattgtta ctttgattta aattaactgg 300
ccgtcgaaaaaaaacttttggaaatggaaaa 330

<210> 3116
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-061-Q1-E1-C2

<400> 3116

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agttaaaag atggttcaa acaagtggaa gaacaacaca gacgagattt aaaaaagctc 180
gaaaggcgt ataaaagcgc tgtgaaacag ctgcaactga agcacagggatgcaatg 240
ttgaaagcaa agaatacagg tggtgtaagt aaggaagagg agaagtgacc cataaagtca 300
tgagggagat tgtggagtg ggaatgtgc ctttcgtcc tttcttctg aggttcagan 360
gaatgtgatg ggagaagtta acatcattat agagaatatt tgtatataagg aactacgata 420
ca 422

<210> 3117

<211> 362
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-C3
 <400> 3117

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ggaagtaaga gtaggagagg gagtaatgt aatgaaagca ggaaagtatt tgaagaagag 180
agtgtaaagc gcgtacctt tgcataatgt cccagcgagt gaaagaggaa gcacaaagaa 240
agaaaaagaa gtagccaggt aagacccgaa gctagttgat cctatgctgt ccaagcgaag 300
taaggctgaa ccagtatctg tggaaaaaga tttggaagag atggcataaaa gggttaaaag 360

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cc 362

<210> 3118
 <211> 409
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-D1
 <400> 3118

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gcgttctatg ttggttacca atacgttgc ttgtatgggt ggtgctgcaa tattactaag 180
taatcgttcg aaggatagaa aacttgaaa gtatcgaaa aatcatacgg ttcgaactca 240
tttcggagcc gatgacaatg cttaccgtag catatatcaa gaagaagata gtgaaggagt 300
gaaagggttt cgactgtcca agtccattat gtatattgct ggtcaagctc tgaaacacaa 360
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<210> 3119
 <211> 331
 <212> DNA
 <213> Cyanidium caldarium
 <223> Clone ID: LIB190-061-Q1-E1-D10

<400> 3119

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tataggatgg tagtttatcg aaagggacta gtaaatatgt tacaaaagtc tttaggagag 120
tttaaagatg ctgttcgtca ggagaaaatc aaagaggact tttccaaaag cgaatatcac 180
gttacaaagg gagagaagat tcgtgccat agacttcaag cacaatatgc aagaaaggca 240
acgaagactt ggaatatatgtat caatacgctg ttggaaagac agtcgagagg attctaattg 300
gatatttgta tgtggaggag cttaaggaaa a 331

<210> 3120

<211> 366

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-D2

<400> 3120

aattccaagg tcgatttgac atacccaaga gagagagagt agcagcatga gtgaggaaga 60
agaaccttgt gacaatgaga atatattagc ttcattgtat caacagttga aaactttaca 120
attcccagct gtacttgggg cactagagac aacaccacgt ggaaaacacg ttgcacaagc 180
cactatacca gagtcgtcgt cgtcagtgac caccaagaa aatatgacgc ccaagttgca 240
agcaatagct attgcactga aaaaccaact tgtgcgcact acagaacaaa tggaatattg 300
gaaacaaatg tatgaaactt gtgaagaaca acgttagagaa tggaaagcac aatggaaaga 360
aaaact 366

<210> 3121

<211> 421

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E1

<400> 3121

agggatcatg taaattaatc cgatttaaac cgagaacctt acctctccaa gaaggtgttg 60
cacggctgtc gaaagaacgt gctgtgaagt gagagaacgt acgagaaaagc caggtgagga 120
agagaaggca agtagagggc ggcccgagaa aggagagggc gtaagacgtg atacagagta 180

ggaagaaaaag agaagagagc tagaaaggag gtaaaaagaag agtaaaagga ctagaagagg 240
tacggattc acgaggaagg agcgtgaagg aaggaggaat cccaagtaat cgaggaagaa 300
aaagcttcgg tcaaagcggt aacggatttt gtacacactg ccccgtaag tcctggaagt 360
gtgctaagaa taagcagcag cggtaaaacg tgtgttagcaa gcgtagagca gaagaactgg 420
g
421

<210> 3122
<211> 419
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E2

<400> 3122

agcgcacgca tccggatttg tatgaaaaca gttgtgtagt gtactaaaac taagtatttc 60
ctgtacttat tcttaacttt ccaaagcaca gtggatctt gtagcaatc aaggtcaata 120
gtctgctaaa tttcaaagtt gcttcctga agcggcatat cactctatac cagtatttcg 180
atggttattt gatcgtctt tgtccgttaa cttaatttc tgtggagttt cttgttgctt 240
aatgataat ccaacattgc ctccaagcga atgaaatcct ttgtgtatcg tccggaaaca 300
ttccgcattt cgtgtgctt aacgaacctc gattcagcaa atacttctcg gtccgttcaa 360
ggacatgaca tctgtcacgt attaattcaca taatgtcata tacttgcct gtttactca 419

<210> 3123
<211> 308
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-E3

<400> 3123

gaattcccta ctcgaccgc tcgtcagccc acgcaaccgc gcatgtttta gtgtggatc 60
ggaagctgtt ttgcatactg taaacaactc tcttcgaag tggaatggcg cgctgaatta 120
tgtggatgga agacgcaggg aaatcgact aagtgtttt gaaaagggcc agatggaaaa 180
gtgcacgtac tcccatcaag tttctccaa ctttgcagtt gctgctgacc ttcgtttgag 240
tcgatctgga tattagcgtc taggcggcat gggtaccaaa ctacctgatt gatgagtcca 300

taatcctc

308

<210> 3124
<211> 321
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-061-Q1-E1-F1
<400> 3124

agcgacaca tgggctgacg cgtgggtgaa ttccctacgag tgtgtacaga gaagaaggcag 60
tacttccttg ttctatgaca actgtctctt ggcattgtgc acattgaaat acggcgaagc 120
gggttatgt cttgaagtac caactaatac attggaaattt ttgcaagttt ttcatcttga 180
atccactatg acgcaaccca ctaggaaaga tagacgatga atcttctaaa taaattaaaa 240
gcaactttt gtttcaaaa cataaaagaa tagcataacc caactaataa aagaatgaaa 300
aaacttacgt aaaaacgtga a
321

<210> 3125
<211> 422
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-061-Q1-E1-F2
<400> 3125

aggtcattta ctcaacgttg aacaaaaaat agaaatatat tctcagatga cgttggaatc 60
atggcttggaa aagtgagaac agtctctgaa tatcacctgt gcagcctgaa agtggatgtg 120
ggtagaacac catgaatgag aaggcaggtt ccggaaggaa tgttgactta agctagttgt 180
gagtgaaata ggaaagctac aggagtatcg gcagcagtat tttcatgccaa tttcctaaa 240
ggtttctctg caatacttct aaaacagcaa attgagcgcg tacgatcttc tgcatgaatg 300
gcaatgcgac tcgggtggaa aggattggaa tgaagccat aagagtgagc gcaagaaaca 360
ttatattcaat ttttcgagt catgcacaaa aatgatccat ttgtatttct ccctgaaaat 420
ta
422

<210> 3126
<211> 421
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-061-Q1-E1-G2
<400> 3126

aggtcgagaa ttgcctcgta gaatgagagc tctttcgctg gttggttct tatcgccgc 60
agagtctggt tatctgact ataataaaatc gcgtgtgccc tttaaaagcc agtggcactg 120
agatttctct aaatactgta ttaagggcag aaaaggccct tcaaacgaga agaaaattaa 180
gtatttagcct tttcttgga cttggcttga aacaaaacac gtggcagca ctccatctgg 240
tacaggtgac aaatgccacc ttcatgtacc tggatatcag cagtgtacg ggaaacgagg 300
aacccgcata tagacaaact tttgaaaatt taaggattgg tcaagtattt gaaggaaaca 360
gtggaaaagt tgatgccata cggggctttt gtgaatatag gaccgaatct ttccggactg 420
c

421

<210> 3127
<211> 391
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-061-Q1-E1-H10
<400> 3127

cgacccaaac gaccggtaag aagaagagta ggatcgccaa agaatgtacg aaagaaggaa 60
aagatcatgt aagagaatga aaagagcaag agtaggaagt gtaacgttgt acaaaggaga 120
aaggaactca ataggatcaa taatgaacag gataggagta atactagtgta taataataat 180
gttaatagga gaaatatgtta gaagagaaga aatacgtta acagtaagag aagagataaa 240
gataataatg ctgttggaa taataaacca tatagcaatg tggatagtaa agaaatgttg 300
ggagtatatg aagtaatagg aggaatagca gtaataagtg gaataggagt aataatgagt 360
aagaaagggg tagaattcgt agtgtatatg a

391

<210> 3128
<211> 422
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-061-Q1-E1-H2

<400> 3128

actcagacaa ccaatggatt ttcttggga cgagatgaac atttgc当地 gtaaccctt 60
acttacaaac caaacctgtt ttgctattgg gagaaaacttt tcgacactgc gtaggaccgg 120
ggattcctt gtagcgtgtc ttccactcgg caagctagt cttgaatat ttcgacaagg 180
cgctgtgcaa tattctggtt ttcatcacgt ggcgtgttgtt caagaaatac aagaactgct 240
tcagtacgac caaatataga aaagggtata cctagagctg agtaaatacc aaaagttgt 300
gccagtggtg ctggaggaa aataggattc gaggaaagat gttcaacca aagaggcgtg 360
ttgttcacgt agactgttcc tggtaaaccg tgactggat cgaattcata tttctgacta 420
ga 422

<210> 3129

<211> 418

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-061-Q1-E1-H3

<400> 3129

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caagtgttta gaaatacgtc ccgacgccag ttgttctttt cgcactagga atagggaaac 120
gggtatttcc gaagccaacc aaagtacttt atggcctgggt ttgtcgagaa agaatcgtat 180
gcacaggaaa ttaaacttta cagacctgaa agtgggtgac cctgctttca aaaggggacc 240
aactcttaga atcttaagaa atgttattat ttgtcggtt tttgatttaa gggcgcttgt 300
atttcatgaa aaggtacaaa tatttgcacc ggaaaacctt caatgttccc aagttcaga 360
gcagcttaca acaagtctgc agtcagctcc aaagtctggc agcaattta ttttgaa 418

<210> 3130

<211> 402

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-A3

<400> 3130

cacgcgtcca gacttagtgg cattcaacga acgatgaagt tccagtacgt gagttttta 60

ttggctctct tatgcgtagg ttctgctctg gctgctgaat tggcacctgg aattgcggaa 120
aaaccggtag agagaggata tgaggaaccc tgctgtaccc aatattgtta ttgggaagaa 180
atatgtatca cacccacacc cacacctaca ccaacctact attactatta ttacgcaaga 240
aatgcataac aggaaaatgt cgatagaagc gtagaaaaga gtatcttcc cgagaaaaaa 300
tctgtatgcgg ttcgagggta tttccccacg tactactatt atgagactcc tacatattat 360
tactattatg agactccatc cccaaaccccg acaccaacgc ct 402

<210> 3131
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-A6

<400> 3131

acggacgcgt gggctgcata tctctgatgg ataatatata tatatagtcg atggaaatgt 60
gatattggaa gataggaatc catccaccaa gcatcatctt attgcacgt gtgagaattg 120
gaatgatgca ataagagaac agtctgtta tcgagttgg aaacgaatga aacaaatagc 180
agcagaaaaat gaaatatttc aaatggaaac ggaagcaacc gttggattat ttcatgcgat 240
ggagttgcat cttgtggaca ttatccaagc aactcgacaa caacaacaac taggaggagg 300
aacaagaagt agcaatatat atcgaccatg gaccaataga ttgactattc gtgaccttt 360
tcgtttgacg gaatatgctc aagatataatt gggagataa 399

<210> 3132
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B1

<400> 3132

cggggccggcc cacgcgtcca gagatatcgc tgtattggtg gtgtgtgtgt gccaaaggaa 60
gacgggatga ttgatccaaa ttagcactag gtggcaatag gcgtcggtgg ctgtgcattc 120
tatgatataa tagctgccta tgtgacattt gaaggatact ggccaccaga ggaatgaagg 180
cgcatgaaac aatttgcggc aaatgcgggg aagcagcaac gaggagttt aactccgtgt 240

gtttgtccat aacgaaaacc atcttcggg tttttgttc atcaacgctg tcaaaaagaa 300
ccttctgtga agtgagagaa cttagagga ttccaactta gtaaacatg gcaactacat 360
g
361

<210> 3133
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B10

<400> 3133

cggacgcgtg gggttggat gtctcgcat tcagtatcc aagtggcaca agagaacg 60
ggtaacttgt tagaaagtcc ttttggat actttaacca attcaactgtt ttatgttagat 120
atcgatggaa agagaatcca tcagtatgaa ttggaaacag agactcaactc cagttggaaa 180
acgagtcaaa gagttggttt catctgcct gttcctaca gtcctaagt ggaaacagt 240
ttgggtggta tggaaagatgg tctttattgg atcaagttgt ctagcaataa taatagttagt 300
aacaataactt gtgtcgaaca acaaataatgg agccacggga tggcacccaa tatagttcg 360
ttcaacgatg gaaagtgcga ttcgagtgga cgacttttg ccggactaat ggattatcag 420
tggg
424

<210> 3134
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B11

<400> 3134

cccacgcgtc cgaaaacaag ttgcctgagt gaaaagttag aaacttgcgt gtatccgtga 60
catcaacatt gttcaacgtg acagacagat gaaacaaaag tacattatgt agcttagttac 120
ctatgtcaa tcagcttatg atagcaactt tcttagagct ttgcacgtt gttacgaaa 180
caagcaagta gctcaacgtt gaacatatca atttcaaaag ataaattggg aaacaaacgt 240
gcactaaaa accacacatg gttttactc taaagttaca agtaacattc actcctgtct 300
ttcaggctgg tgtgtcgaa gctgaggagc tgcaggagct gccatgggtg gtggataaac 360

tacagcactc ccagtgtagt atgcaggagt aaaagttcg tattgagtga acaaaggatt 420
gaaacccccc 430

<210> 3135
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B12

<400> 3135

aatcaggttc gacgaagcag agcaaggatc gcaaaactat caaagagctg aaagccgagg 60
ccttggagac taaaaaaagc ggcttgaata cacgctccga aaccgtggcg cacgacgaag 120
taacaactct ctcctctgca atatctaag tgagaattga cgagccaaa agtagtgcca 180
agtgtgctgc agagaaagaa aactgcaaca acgtcattcc tggcgacaac aaacagacaa 240
ggtcacaagc aatcggAACCGTGGCGCACGACGAAG 300
gtagttgttt tatatttcgc tgatatgcct ttgtttctca aaacatattg aaagctttt 360
aatgtgttaa agagactgat t 381

<210> 3136
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-B2

<400> 3136

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taaaatgtca agttttctaa ctgcggcagc cttgtcattt cgtggcgat tacaacaac 120
acaaaaccag tggaccaaca atggagtagc aaggagactt tatcacgaaa aagttagtcg 180
ccattatgaa aacccaaaggat atgttaggttc tctagataaa aacgacaaat atgtggcaa 240
cgattttctt ggttggaga agatatgttgc tctgcaacgat ngtgttata caaagctgct 300
acagaaaagat tagtgactat ggtgggatta aaacaggaac caaatgcac agagattcta 360
gaaaagt 367

<210> 3137
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-B3

<400> 3137

aggttcggtg gaaatgagca acgaaagacc tgtttatgac gatatggcat ttcttactta 60
tggcgttagga attagacgcc aaagtatctt ttatggcaac tcacttacca gacaagttt 120
tacggataaa aagcaagttt ttcaaaaacgt tcttggaat ataaggcaa gcaccacaga 180
agttccgaag aaaactctcaa aggttaaaaa ttacaagaaa aactcgagtc acttgaagtt 240
tcccctgcag caggatttgg aggatgataa cattttggc tcggaagagt cggttcaaat 300
aatcaaattt cacggttcct atcaacaaga caatagagag caaaggaaga aaggggaaca 360
aaaaaaagtac caatttatgt tgcctccaaa gt 392

<210> 3138
<211> 426
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C12

<400> 3138

accacgcgtc cgagacatca gaaacgggtt atattcaacg aaggtaatg aaagcaatgg 60
aagatattat ggtcaattat gatcatacgg ttcgagattc tggaggtcat gctgtacagt 120
ttctttacgg agaagatgga atggatggtg ctattataga gcgc当地 attcattcta 180
tgcgaatgag tgatagagaa ctggagattt cctatcgatt ggatcccttc gatgcaaagt 240
ttggatttgc accaaatggt aggcgatatt tagatataga tggtttggag gccgttcata 300
atgattctga gctgccgtc ctgttaatc aggaatttga agctatcaa gaagatagag 360
atattatttgc acattccata tttccctagaa cagacgataa tcgtgttagca ttaccgggtga 420
atatttgc 426

<210> 3139
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C3
<400> 3139

agaagaggag ttatgagaga aaagatggaa gtaatagaag tggtaagtgg agtaataatg 60
aatcatatga aagaaggaat ggagaatata aggaaggatt acatgaagga ggagataata 120
ggagaaaatga taaggtggat atatatatcg ataataagtg tgatagtaat ataaaggagg 180
agaaagagag gaaagaggtg tatgatgcag gcaaagaagt gacgcagtag atcagagagt 240
aacacatgca agtaggtaaa gcgaacgggt gagtaaagag gtgtgaaaga gtggaagaac 300
atgaaagcac agaagaatgt aagaaatggt tagagtaaac agaaaaggaa gtaaaaggag 360
ggaatgaagg gaagttatgg caaaaacacg tgccagcagc 400

<210> 3140
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations.
<223> Clone ID: LIB190-062-Q1-E1-C6

<400> 3140

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gtggaggcct ttttgtgggg aaatatgtgt ctctatttct tcaatatatt cttggtgttc 120
tttatctatt gggttggta aactgggtt tgattccta ctgttgaga ctatcgct 180
ttgacttcat tgaaaagga ccaactggga aaggaagctc agttgcata ggtatgtcc 240
taagaagaag caatgttggt tggttggta tgtgttgggt gtggattgt tacatatata 300
gagagagtgt gtgtgagaga aaatgcctt tgagtgacca ctcctaaaa ggcagtgtga 360
acaaatcctc acanagcana agaggaaaat aaaagctct 399

<210> 3141
<211> 235
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C7

<400> 3141

agacagaaga aagtgtgacg agtttgaga tatctgacta tgagtggaa gtattgagta 60
gttttagacc tagtaaggca ttgcgagaaa gactttgca aaatatttct caaaggcgtt 120
ggagagacga agcggttacgc cttgttcacg actccaaaca cttgacgatg ttatggagta 180
acgtagttt acgcaagtgt ttatataatc ataaagtctt ttcgacctt catac 235

<210> 3142

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-C9

<400> 3142

acccacgcgt ccgccccacgc gtccggcgat ttgttagttat gtttctgcgc tattagaaga 60
aggagatcgc gtattgaatg ctattcgaaa gcatacagtt cctagtggtt tgtttacaga 120
ggagattgat cgatataactg gtttcgagca aggagctatc aatthaactt ggagttatga 180
tgcctttgtt actgcgggtt ggtcgaggga agatgttcac aagttgtttt ctaaatattg 240
tgaacctcct tctccatcgc tacctagttat gccaggacct ggtggtttat cttctccata 300
ataagaggca ctgtgcact ttggatattt ttgtggttca cattaa 346

<210> 3143

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D1

<400> 3143

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tactactgag ttgacagcaa ctctattta tgtctttta ctccaactct tttctttcgt 120
cgcttagacac ggtgaagag tctagttggg gactgaagat agtaagtata tttcagaatc 180
cgagctcccta gtgtctaata ttatatttag gcaaggctcg cttcctcggg tccttttcg 240
atcgaggaag tgctggtaac tggtaaatca ctcgtcggga agcagaagac ggggaaat 300
ttaagccaaa gtctgaatcc ggaaagattt agaggagact caacaagaac aactcgatgc 360
tcaaattacg actttgtttt ggaagaagcc ttgggttagg ggcgccttcct t 411

<210> 3144
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D10

<400> 3144

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tgaaatcagc gaatctaaaa cttcaaactg tacttagttt tcatcggtgt ggtggaaatg 120
tgggtgatca gtgttatatt ccattgccaa agtggatatt tgcagttgca gaaaacaact 180
ctgatatctt tttcaaggat agagatggca atgccgatga cgaatatctt agttgggta 240
tcgatgaaga acccgtcttg atggaaagga cagctgtcca agtataccgc gatttctttg 300
tttctttcg ggaaactttt cgacaatatt ttggaaatgt tattagtcaa gtacagatag 360
gtctaagtcc agctgggaa atgccttatac ctatgtatca gttggccaaa tggacatttt 420
gtgga 425

<210> 3145
<211> 179
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D2

<400> 3145

acccacgcgt ccgctttcaa atattctttt gcaaaaaaac gaattgccac aattagtcgc 60
aaaccaatat cctatggcggtttataaaaaa agagcgcaag gttcggactt gttctccaag 120
tagggaaaaa ttctgtgttg ttttagagac atctattata aaactgtcta taccgaccc 179

<210> 3146
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D6

<400> 3146

agggcgtaga taagcacggtttgaataact ggaaagctat tgcagaagat cctgaactgg 60

gatttccggc aactctagaa aaaccttgctc agaagaaaaca aaatgaatct ggctctgtca 120
acgagaaaaga tttcaagttc cccaaagcaa aggtctgtca aaaacgattc aacttggcac 180
tagacctgtt tgttatcaagc ctggaatctt ttgaggatta taatgcagt caacaatcct 240
cttcctcggt ggtgattgac gcgttacagt ttaatcgaga tataactgaag gaacaacctc 300
tggtcatggc tggagatcct cgtggagttg tagaaataacc agagaactca gaaactggag 360
agttacgtct tccgtttgat gtgggatgtg gactagttat tctcagtttggc 414

<210> 3147
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D8

<400> 3147

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cctggtattt ttatataacc aagatagttt ttacgtatg cacttttatt ttctctgtcg 120
tcatttgc tctggtcagt aacgcaaagt ttaatatata tgataaatcc ccaccgaata 180
ttcatggaga cttttgtca tacaaggcgt cactagctga gccagctggc gtgactgcca 240
tttgcaggta cctcatagca gtaggtgctc ttggccttgtt gtttgcata gggttcgttg 300
cattctctct atggaccctt ttggcacatc gagtgattga tttatggtgg gtcgaaggct 360
tgttgaatac ctttggatg gtctgggtt ttatagcagc tggagttgct a 411

<210> 3148
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-D9

<400> 3148

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tactccttcc ttgaaatgt tgaaaagact ctgtttccgc tggtagaac caagccatcg 120
cttctatcga ttataggaa ctgtctatcc acaggatgct gctatcatcc ctatacgtt 180
gctagaaaga gacgaagagt ttagacaattt caagaaccag attttgggtt ctaaggacag 240

agatgaaaag acaaaagaaa gactcagaat aagacaggaa gtacttcaag agttagaaga 300
acaagggatg attcgaagga agaaaccaa gaactcttca tatgacccc aaaaatggaat 360
ttatatggag agatacttga caacagtacg tgaagttgt gaggagtatc tgtttggaat 420
agacaacaga
430

<210> 3149

<211> 430

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E10

<400> 3149

atagcgcgat aactttgaat ataagttcc aaataactcg ggaagaatgc catcactcg 60
acaactgtag atatacgacc cgtaaataga aagttatcgg taaatagacg caaagtaact 120
gaatttagcgt tttgtacggt tggtaactga tcgttggta taaaacgaga gaaaataggt 180
cttcgtaaac gttgatattc ctttaccata gaatagactg ggaaatggac aggtAACgt 240
gtttctgctc tctctaataa gcgtaaaaaa gcttcacgaa catccaaaaa gggaaacctcg 300
gaagcaaatc tagtaatggt agctatatga gctacaataa gttgtccttg atcagaacct 360
tgtaacgagt ttccaattt cc当地atattt ctgtccagtg cttgttccct tgcaagcttca 420
tcctaagtca
430

<210> 3150

<211> 432

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-062-Q1-E1-E11

<400> 3150

aggaagaaga cgtggggaaa cgctaggcaa gtggccgcct aagtgactgc gcttctttc 60
aatcctttca aatattgagc ttggaccatc gaaatcctcg gtatattttt gaataaaaaaa 120
cgagaactaa tatggaaaaaa tatcgaagag ttgagcgagc caaaagtccg ggccagactc 180
cgccgaatca agtacgaata actgcggcgg gcaaagtgcc agcctatgtg gactatgcag 240
tcaagttgct tcaagaggat aatggcacccg tggaaatcgt cgggctgggt aatgccatca 300

ataaggctat cactgtagca gaaatattga agcgaaaagt cnccaagttg gagcaagtaa 360
caaatcttag ttcggtgact attgaagacc gctggaaacc attggaagaa ggcttggacc 420
ctattgaaac ga 432

<210> 3151
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E2
<400> 3151

cccacgcgtc cgagagcggc gaacgacgtc gattgtgcgg tggcttgatc ggttccttcc 60
ctaatatccg acaaacgagca tggaagaaac tgctggtgct agtgcagctt ccgcaagtgg 120
tgccgcctaag agaagaactt ttgcgaagtt ttgcgtaccgc ggagtagagt tggatcaact 180
attggacttg aacatggaac aactaaagga gttgttcaac tgtagaatcc gaagaaagtt 240
gaatcgccga atgggtatca aataaaaaac actgttggaa aagttgcgaa aggcaaaaaaa 300
ggaagccccg gaacacgaga aacctgaagc tgtgaagacc cacctccgcg atatgattgt 360
tctgccagaa atgattggaa gtgtcgccgg agtttacaac gggaaaaact 409

<210> 3152
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E3
<400> 3152

agggattttc tgatgaaaag gaacgcattt ggatgtttca taccacggaa cctgaaattc 60
gtcataaaacc ttacgacgaa gaaattcctt gtgttagtag agaatacaag gaaatatcca 120
attcatttca tccttccgaa gacgatttga tatttgc当地 tcatgc当地 ct当地tggtg 180
atttaggaga agaatggcca tcgaatagtc catggtttga atgaaatcgt ccaccacaac 240
aacaacttga ttccgtatcc acaagaaaag atagtc当地 ggaggatatt ggagaagaag 300
tttttccgtt ggatgttta tgaaatcatt ttcatgataa tgaatggcaa ct当地acttgt 360
tatcttcttc ggagagtaat aatagtaatg attggtttta taagacac 408

<210> 3153
<211> 335
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E5

<400> 3153

tgtcattata gacaattcgc cttctgcata tggatcacat gaggagaatg cgattcctat 60
tggaaacatgg tggatgatc cattagatga agaactctta aatttgccttc ctttcttaca 120
ggccttatgt gtcttggctg atgttcgctc tattcttagt ctgcgtgaaa caaaaggagt 180
tttattgcac aatttagtat ctatggacc ctatcattca tcattgaggaa aattctatgt 240
tagatggcaa ttgaaataatt gtttgcttga tcgttgtctc tgcttctatc tagtagtctt 300
tataataaac catcttacat acagttgagt cccat 335

<210> 3154
<211> 312
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E6

<400> 3154

aggaaaaaagc ccagaagcca agataaggta tcaaagtaaa gaaagaagga aaaggagaag 60
aagagagggt aggcttagaa gcagcaaacc agagaggaaa gcgttaaagc atgaaagaaa 120
agaaaatccga aaaagaagag aaaaaggtaa gaaagaggac cgaatcaggg taagaggtag 180
aggagcaaga agagaagaga gaatgctggg tggagtagcg aaacaagaga agggaaagtaa 240
aaggtaagaa agaggaaagg tttacgagag aaggaagtag aaagaagaga gtgttaaggcg 300
gcgtcataat ag 312

<210> 3155
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-E8

<400> 3155

aggggatctc tctttttt gtggggagag gtgattggcg actctgtcga ggaagcaagg 60
cttgggaata gaactatata ttcacatcat tttccatcat ctttctagaa attattgaag 120
aagaatagtt gtgagaatat gagtcattat tgtggtgtgg tggtatttgg tttccaatcg 180
tgtccttgc ctgctagtct atggagagtt ggaacaagaa gaaaaagatt gcgttgcgtt 240
tttttatgtg taaaataatag gaacaattat gcgagtgccg cttcttcatc ctcacacatt 300
aggagagagt gtctcatcat aggacttagt aatccaggaa ccgagttgag caataactcgt 360
cacaacctgg gcttcaagt attggattat tatgcaaata gatattctt ca 412

<210> 3156

<211> 422

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F11

<400> 3156

aggaaccacc gcgtcattcc ttgttgta tccttgatg gtttccacct catatcgact 60
agttcgact acaacagttt cttcaagcg tggattatcg caagcagtga aaagcgatca 120
agctacttct gcttcagaag cgccctaagt ttctagtggg gttccctcct tacatcccc 180
ggaaataaccc aaagatgctg tcaagtttc attgaaacct tttgctactc acctcatcga 240
agctccagaa cccgttgctt atgctacgaa agaacagttt ctggcatatc atcgacgat 300
gacagttatg aggaggctcg agatcagtgc tgatttaatg tataaagcac agttggttcg 360
aggttttgc catttgcacg atggccaaga agcaacagct gttaggcattt aatcagcgat 420
ta 422

<210> 3157

<211> 432

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F12

<400> 3157

actcgagtgg tggaaaacg ttcgacgcga gattgtcgtg agaaacagaa aggaaccttt 60
tttcacaacc agtaaatagt tacatggata caacatcggtt catatattat agcaacttt 120

cctgttgtac acgacacccc aactttatct ctgtcgctaa gcaactaccg aaagcacgaa 180
aactgagaac agtaaaagtcc aaccaggtag tacagctatc ctgcgtgttgg aaatcgaaacc 240
ctttttcca aaaactatct ctaatgaaaa cactagaaga cagtttgagaaaatgtgga 300
gaaatagcaa ggcctcgtcg gagaaaaggt cgatggagta catacagtgt tcagcgtgta 360
aagcagtata tccagtacag gcaaataatgt ttggggaaaa cgggagatat gtgcgttgta 420
tagtttgtgg aa 432

<210> 3158
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F2

<400> 3158

agcaacaaca ggacggaagt aaacgcagtg gaagccttgc tttggccaa catgtgcttg 60
tactccttca atatcttctt ggccttttg atatactggg ttggtaaac ccgtggctgg 120
attcctaccg ttgcagacta tcgcgtgttgc acttctgtgg agaaggatca aactttgtcc 180
aaaggagcgg agatgcata agaagagtct gcataaagga ctatTTTgt atagttgcc 240
tcatggacgg tttgtgtgaa aagttgtat tgttagaga gtgtgtttgt gagttgtgt 300
tggattgtt gtttacgtc tttgtgagtg accactcgta cgagtgtat gaatcctcac 360
aaagatgata gaagacaata aaacgatgtt gttttggat 400

<210> 3159
<211> 354
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F3

<400> 3159

acaccgtttt ttgtgggttt cactcggttg tttgtcttg taaaactcg aagactattt 60
atttctgtt atgtttttaga ggtttctta gactttttt ggagttgtca tactccagtc 120
ttcgtggttt atgaatggct ctatggcaa agagtttt tactttccca ccattctcca 180
cagctccaaac catcaacttt tatacgcacc ttgttatattt gtgcccttag tagctaacta 240

attccgcttg aagagattgc aagtgggtg tactaaacaa gaggtgcaag tgtcagtata 300
agagagtatg tatgtgtgtg tagtgtgttt ttgggagtag gagtacaccc aagt 354

<210> 3160
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F4

<400> 3160

aggagtaatt tggtaagag agggccaaga tggtcactc tatggaaatg aagaagaata 60
agtttataga acagtggct gcctatagag aaaactctga atatttatac aaatggacac 120
caaagcgtgt aataggaatc ggttttttg tggcgtgat tccgtattac ttgtatcgct 180
acattgtgt aagtgtggaa aatcagtacc caaactatgg agctgcagag tatggttac 240
tgggagggttc tcctccaaag tactcgagtc aagatgtga aaataagtaa cttgacaacg 300
tcaccaacga cctaaagttt ctctgttggc gtattatatg aaaactttat aaacaagttt 360
atttttttc taaaaaaaaaaaaaaaaagaa 389

<210> 3161
<211> 410
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F5

<400> 3161

atgttcgtt gtggaaaata aaattttgt gtgaacata aaaaaaaaaaaaaaaa 60
aaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa caaaaattaa aaaaacaaaa aaaaaaaaaaaa 120
aaaaaaaaaaaa ccaaaaaaaaaaaa aaaaacaaaa aaaaaaaaaaaa aaaaaacaaaa 180
aaaaaaaaaaaa gaaaaaaaaaaa agggggggcc ccccccaagg tttccacctc aacttcccct 240
tccccggcaac ttcaagcccc cccaaaggtg cccccaatt ccattccgg gcccttctt 300
ttaaacgttc gaaccggaa acccccgggc gttccccacc taacccctt ggaagcaaac 360
cccccttccc caagctggcc tattcccaa gggccccccc cctttcccc 410

<210> 3162
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F6

<400> 3162

agcggacgct tgggttggaa tgccgcagaa aacgatgatg ggatacacct ctccc gagca 60
agcgctgttg cagtttagcat ccatcaagaa aaccaccaaa aagttaaaga agcacttgca 120
aaaatacttg gatgaaacaa acactaagaa cacagaagat gcagaaccac tggAACgtgc 180
aaaggcaaac ctcattttgg catatatatc ggcggccctt ttctacatgc ttcttcgagt 240
tcacgggtg gaaacttcag gacatcctat catggaagaa ctgcaaagaa tcaaggaacg 300
ttttcaagtg ctccgaaagt taattggaca agaagatact cgttcactgg ttatagatgg 360
tgaggcgacg ggttaggattt tagcagccac tctgaaagat ctctcagcgg acaaaa 416

<210> 3163
<211> 134
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-F7

<400> 3163

aaagggggag gtactcgccc cgatggagca ttcttaaaag cagtggaaaa agaattcggc 60
tcattggacg ctctcatttc gagcctctct gctacagcta tcggcgtgga cggatctgga 120
tggggatggc tcgt 134

<210> 3164
<211> 429
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-F9

<400> 3164

ccgatattca tcctcgaagt gatgatggtt gtgggtgagtt taattatcgt atggtttggaa 60
cgatagcatt cccgaaagaa cgttttatc gacttcgaat gactatctgg gatgtgtctt 120

catctcctac gggttccgtt cgagacggta ctttatgc agaatgtcaa gtggacttgg 180
agccttggtt aaaggaagct catctaactg gtcgtatggc atcaagaaag cctcaatggc 240
taaggtttc tcatcccaac tatccacaga tgaacgcaca tgccaagctg tctctagatg 300
tattggatca acacgatgcc aaattctatc cagttgcaaa aggaagacaa gaacccaatc 360
aatatccata ttacacctccg cctttccgtc ncgtattctt aaatcctctg aatcctatgc 420
cattttgtt 429

<210> 3165
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-G10

<400> 3165

atctccttgc gaggaatttc ttgcggggcc gaagactcgc tttcttgttt tgtggtggtt 60
gtcgctttt gtctctcaag ttttgccga aaatggttca acagtggaga gcagcaggtc 120
tcacttatct tcgttatgca aatatatgtg cagattttgt tcgcaaggca ctaaaggaac 180
cgaaaagaac tgaagcattg tcgaggaccg gtttgagat gacgagaagc gagtggagtg 240
aaggcaaggt tgtgaagaga ggttaagtcca cgaacanaac tactagaacg gtgatttgat 300
ggagacacct gcagagaccc ttacacaaga gaatgaaact agtaacgtcg ccaagagtaa 360
caagtgaatg tgtttgggt aataaacgtc tagaagaacg cgtacgtgtc a 411

<210> 3166
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G12

<400> 3166

ccccacgcgtc cgccccacgcg tccgcccacg cgtccgcccc cgcgtccggg agaagaagag 60
agggttagact tagaaggcagc aaaccagaga gggaaagcggtt aaagcatgaa agaaaaagaaa 120
tccgaaaaag aagagaaaaaa ggttaagaaag aagaccgaat cagggttaaga ggttagaaagaa 180
caagaagaga agagagaatg ctgggtggag ttacgaaaca agagaaggaa agtaaaaagg 240

tacgaaagag ggaaaggtaa cgacagaacg aagtacacag aacacagtgt aacgcggcgt 300
cataatagaa atccgaaaag agtagaagaa aagagagaga agacagaaaa gaagagaaaa 360
gccgtactga agaccgacac aggtactcga ggagaaaagga gac 403

<210> 3167
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G2

<400> 3167

acgcgtccac ccacgcgtcc gggcggacgt tttttcgtg aagcaaacaa caacaacaac 60
aacaactatc ggtcgcgcaa tgcttacagt gaaaccccatt cacaacttgt tgaaatgggt 120
attttcaac atccctgcga gaacgaacta gtttgaaga gtaccaacga aaagatcccg 180
tttttaacg ctccaatatt tctggaaaac aagacgcaga ttggcaaagt ggaggaaata 240
tttggtccta ttacagacgt tcactttact gtaaaaccag tggaacgtgt attagccact 300
tcttttgtg taggagacaa attctacatc ggctcagaga aactgctgcc gcttgacaga 360
tttcttccca agccacctgg tagtcagacg ggagacaagc cgc 403

<210> 3168
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-G5

<400> 3168

acccacgagt caatggacac attatgtgac gactcggtgg tatcgggcag cacaccttat 60
catgtcctac tagacacatt actctacagt catacacatg tcgagtgctg gctgtatctt 120
tggggggcg ctcactcacg gaagaccgct gtctccagta atgaatggtt tccatcagtt 180
agacctcatac acgaagacac tatgaactcc ttcagcacac gcatttgcca catgtaacga 240
actcccgac gtactcacta tttgcagtct cttcctagaa gagcacaaaa acctctttc 300
ggaaatattc gctgggtgcc gatccccgtt gctctggcgt t 341

<210> 3169
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-G7

<400> 3169

cccacgcgtc cgcttgcttc tggatcagag agcgcttcct taccggcggt tgcaattgat 60
gagaaaacgag tcgtgtcttc cacgggagct ttatccctta gtcaagttcc taagaggatg 120
atcgttattt gagggtggcta tattggtctt gaaatgggtt ccgtttggag gagacttggt 180
tcagaggta ctgttttggaa atatcttgat cacatagttc ctatgcttga tcgcgaagtt 240
gcagatcagc tctacaaatc tcttcaaaaa caaaatctaa agtttaagct cggcacaaaaa 300
gttggtagggag tggatagcag tggtagcacc ctcaagttga cagcagagcc atcganaggt 360
ggaaaaacaag aagtccctcga gtgtgatgtt gttcttggtt ctaca 405

<210> 3170
<211> 427
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-062-Q1-E1-G9

<400> 3170

aagaacctgt agaagaaaaag agagagaaga aagaaaaagaa gagaaaaagcc gtactgaaga 60
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 120
gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 180
tttagcaaaa acacagcact ctgcagaaaa gagaaaaatgt aaagtataga gtgtgcggcc 240
tgccaaatag tagagaagaa atcgatgaaa gtganagcga gtaaaagatg aggtatagaa 300
atggcggtcc taactgtaag gattcaaagg tagcgaagta natagacgtt tganaggcgt 360
ccagtatgaa aggagaaaacg agtgttagcac tgtctagtcg tcnaactcag cganacagct 420
ataactg 427

<210> 3171
<211> 394

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H1

<400> 3171

ggtgctctga gaaggatgc aatctttca ctggagagt acgtgtcctc aaaacaagca 60
ggagtttagaa acatatttcg agcgtctaca aagacatgca caacagctt aggcggagct 120
tgtacgtgtt cgacaagcta tggcccaagt tagttctat cttcgtgatt ttgcgccaggt 180
ggaggaagcc aaaagtgcga atgattttc aaatgttagc gccgtcacag gagagtctgc 240
gaaaaatggg tgtctatcaa gaaacacgtc gttctcgctg tttggctt ctactgcaag 300
gtctgataca acaccacaaa agagtgtcgg cgagaaaagg aggagggtta ataaggatc 360
gagtggaga tattggtcta gtgaagaaca tgat 394

<210> 3172
<211> 302
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H10

<400> 3172

aaacttttc caaatataga gaagttttt atgcaagggt tggttatgaa cgtgaaactg 60
gtcattcgcg tggttttgtt ttctatcct atgcataatg ttccctccgtt gacgaatgca 120
atgccgcact gaatggcaag gatatgcata gacgcactat tcgtgtgaac aaggcaatgt 180
ctcgtgaaca actcgagagt ggaggagact ttctcgccg tggcgtgaa cgatacggaa 240
gttttcgttc cggcccttat gagagacgtt aacgtgactc tgatcgtagg atagatcatg 300
ac 302

<210> 3173
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H11

<400> 3173

atgaattttc aggtgttggg ggtgcgtatt cccaagagtt gggAACAGAA cagcacttgg 60

agacataaac gttgtaatag aagcaacaca tataggaatc gcttttat tcataatatg 120
tcagggcttg tttgtcacag agcacttata ttaatagatc acggcagtaa agttccagag 180
gcaaacgacc aaattgccaa agttgcttct ctagttgcaa agcggcttcc aaatacttt 240
gttactttg ctcatatgga attagcgaaa cctgattga tggaggctt cactctatgc 300
gttggaaaata atgcttagaa catcaactgtt tgtccgttt tcttgtttcc tgaaaaacat 360
tgcactgttag atataccgca gatggctcag aactgtgcta gtaagtttag tagagttact 420
tgtaatgt 428

<210> 3174

<211> 383

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H12

<400> 3174

atttgaggtt tctttcgcc cgtgcgtatgt taagacgggc actctatgaa ctgttaacaa 60
ggcttatatc ccaaagttct aaagttagcac cttaattt tcgctattcg gttagagagga 120
aattggaaac ttatattcct agtttcacc atactttgtc tgtgcagacg agatttttc 180
aacagcccaa gagttgctgt ccgagacggt attgttcgtc caactccgga aatgaaagag 240
gagtcctagt tgattcagac aagtcaagta atccatctgt tgaaaaaagt gaaggaatcc 300
ctatatttgg cagagaagag tcagatcctt ctcaactggg aagagattat attcgacttg 360
tgtcgtact tgttcgatg cca 383

<210> 3175

<211> 431

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-062-Q1-E1-H9

<400> 3175

agcttggaaa aagctctgtt ggaagatgac cttgatgtt tttgtgactt tcggatcacc 60
aaaccttgcata gcacacacaagt ctaaagtatt gaataccaga aacaaattac agaggcagtg 120
tggctgcgtc aacacaaagc gtgataaaag gactcaagta ccaaacactt gggttatgac 180

tgaaaactaca ggagtcaagc ttttgaatgg cgaacagaag atggagatga aggcaacgaa 240
agaagtcaaa gttggagagc gtgttcttt ttgcaggtgt tggaagtcag caaagcatcc 300
gtattgtgac gtttcgcaca acaaataaa taaggagacc ggagatcatg tggacctat 360
tgttagtagca gcagtgcagg ctacagaata gtttattgt gtttatttt caataaaggg 420
tagcagtttg t 431

<210> 3176
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A11

<400> 3176

gggtcgaggc acgcgtcagc ccaagcgtcc gcccacgcgt ccggtgctga gcgagaggca 60
aggtgttatac atggcaaagg cagtgagaat tggtgctgaa ggttacaggt taaagttgga 120
cggtgcagtt caagagatag acggtcgttc ttagtcctg ttagatgtgg atagtattac 180
ccctctcatg tttggaggtt gatatgaaaga aaaggccaaa ttgttggatg ccaagtttct 240
aaggagagta ttatgaggag aacaaggact tcttcttctt gtcgactaga gaagagaaga 300
aaatgtttgt gacgttacaa cttgccaggg aatatgcaga gctggtagat gacca 355

<210> 3177
<211> 199
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A12

<400> 3177

cgggtcggcc acgcgtcagc ccacgcgtcc ggaacgatgc gcagtaatgt cgcgattgtt 60
ttctttggtg gacaaggata aagttgctga tataagagaa caacagaaaa gaataacgga 120
caagttgtct tccaataaccg caaaagtggta tgagtgtgtg agggactga gccagttgt 180
tgagggaaacc tgcaagtgac 199

<210> 3178
<211> 167

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A3

<400> 3178

gaatcggtac aatcaatacc tgcagcgtg taagagcatc tttcctgcaa tgtgatatca 60
tggagggtga gaatcccgtt tacctcttt ccttgcaagg cagctgcgtt accatattc 120
atgttgtgaa gtctgggtgt ttgggagtagc atccgtaaat ttgttgg 167

<210> 3179
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A5

<400> 3179

agcgacagga gcactcgaca ttggactgaa ctacgaagaa taagactctt tgtacaaaaca 60
caagaaaaaa agatcaactg ttaaagctaa ctgcttgctg ttaccaacca ctcgcgcatt 120
tgttgtgctt gtttctggaa tatcgaaaat tcttgttctg tgtctacttt ttacttaggt 180
gtcaccaacg tgcaagcgaaa ctggtaaata gaacacgtgc ccagtcaatc tggcaaaaca 240
ctcttgcc aaatacagag ggtctggatg agtcaactatc ttctgagaat gtttgaagc 300
atcttcctt ggaagagaat gtcgtctcgat gttttgtgtg tggaaagaac gtttcagttc 360
aaagcaactt atcttcaata 380

<210> 3180
<211> 386
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A6

<400> 3180

agccccacgacg tcggcccaacg cggtccggca cggtccggcg caagtgattt cggaacaaac 60
cattgaagaa aaagaaacaa cgaaaacagc tggatttgca aaagatctt tggctggaaac 120
tgcaggagga actgcacaac ttttagtggg acacccgttc gacaccatca aagtaaaact 180
acagaatcaa ccttgggtcg ctccaggaca gactccacaa tataccggtg caattgatgc 240

agtaagaaaa acggttcaa gacaaggcct tggggtcta tacaaaggaa tggagctcc 300
actggcttc gttgcagtt tcaacgcagt tctgttgct tctaatggc aaatgaaaag 360
aatcgccac ggtgaaggta acaact 386

<210> 3181
<211> 400
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-A8

<400> 3181

agccccacgct tccgtatttt ctataaatac caacatacat attgtattct gtatgtttgt 60
ggttgcttg aattgcttac cttggctacc aaaaacagtt cgttccattt ctttttttgg 120
ttatacaccc aactcgaaaa ccaaaccatc gaggaacttg gtgacttg tt gaaaaagga 180
gcccataac aagaataata acactacgaa taataattat cattctcatt gtaaagagtt 240
acccaatatt gattccaaaa ctttatttgag tctaggactt gatatacata ccaagtctat 300
agggttgcc atagtctctg gatggacagg tcaagcaatt cgtcacggta tgatccaact 360
acaacatatg gaaggagccg atgttttga taaagttgac 400

<210> 3182
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-B1

<400> 3182

acgcgtacgt taagagacta ctgaaacacc aaagagaatt cgtattactt tgaccagtaa 60
aaacttgagg gcagtagaaag gagtatgcc agaactcggtt caaagagcaa agatgaacgg 120
cttgagagtt agaggtcccg ttcgaatgcc gaggaaaact ctgagaatta ctaccaggaa 180
atcccccttgt ggagaaggaa ccaatacgtg ggatcgcttc gagctaagaa tatataaaag 240
agtagtcgtatattgcga cggctgatgt agtgaagcaa gttactgcat atggttcga 300
ctctgaggtt caaacccgagg ttactattag cgattagata gactgcaaga aaaataaaac 360
aggcgtctcg tggaattta aaagaaaaaca caaaaaaaaaa ggggggg 406

<210> 3183
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-B10

<400> 3183

cgcgtacgat tacatttcac attctccttg tagaaaacta tgaagtcttt cgaaattgct 60
attgtttcc taagctttgt tattgcatct tatgcagcag ttgtatccga aatggcatcc 120
aatgagttc aaagaggagg atacgctcct ttccttcca aggaatgctg catgaccact 180
tgtcaatatg cagaactttg cccaatttct caaccaactt atagccaagg ctccatctta 240
cattccatct cctacctatg gccaagctcc ttctacaat caatattctt cttcgtacgg 300
ttcctcttagc tatcgctct taactgcaga cgaaaaccaa cttgtgagca gaggaggtta 360
tgcaccaaca agccaatgta ttctagttcc tatccaatgc tgc 403

<210> 3184
<211> 389
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-063-Q1-E1-B12

<400> 3184

cgggtcgggc acgcgtccgg cgtttctat ggatcgaaa caatatcgag caagtgatag 60
aactgggtcg tattttgaga atagaaacgc cgactatcga aaccatggac gaaaatatgt 120
ggcttcttcg acaaataaga agttttccg gcgtcgagtt tattcaccta cttggacac 180
tacaaggaaa gaaacgaagg acgcttattg ggaacanaca agacaaactg ccagtggcac 240
ccagcacaaa atataaagac gatagaagtt cgacctatgt aaatagccag gaaagttatt 300
caaacttggg cacggaggaa aggaaatccc cagcaactac tacagaactt gaacaaactt 360
catcctgnga cgccctcggt gtgaaagac 389

<210> 3185
<211> 394
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-063-Q1-E1-B3
<400> 3185

agcaagcaaa gaagtgacgc agtagatcg agagtaacac atgcaagtag gtaaagcgaa 60
cgggtgagta aagagggtgtg aaagagtggg agaacatgaa agcaccagag gatgttagaa 120
atgggtatag ttaaaaacct taaggagtt aaagcgcgga atctcagaag aggaaagcca 180
cattgtggac tgagaaaaag tgcaaacacg agaagtcacc actggggaaa attgggcaat 240
gtacagggaa gtatgaccca gtaatgagga gtggagtaaa cagaaaagga agtaaaagga 300
ggaaatgaag ggaagttatg gcaaaaacac gtgccagcag cagcgtaaa acgtgtgtag 360
caagcggtga gcagaaaaaa ctgggtgtaa aagt 394

<210> 3186
<211> 260
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-B4
<400> 3186

gataatgata ataggaggga gtagtacagt aattgtaaaa ggaaaaggaa aggaaagaaa 60
gagggaaaggg ataaaatgca aaaatccaa aaaaaaggca cgaaagaaaa gaaaggaaga 120
cccattaaat aaggcaagaa accataggaa ttaaaccgga taagaaaccc ttttatccaa 180
gccattaaag aaacaattaa ttataaaaaa aggaattcat tcaacaaggg aattaaaggc 240
ccacaaacaa accccaaacc 260

<210> 3187
<211> 369
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-063-Q1-E1-C11
<400> 3187

cgcgtcaggg gaaaaagang acgaaatgcg agctgcattg agtttggcta ttccccaaacg 60
ggagttgatt ggatcgtttc ctgtatagtc tattcatgtt gatatcttt gcccattgtc 120

attttgcact tgtaaacaga aaaggcattc agacaaggaa atattgctct tcttgcaang 180
gaacgtattt ctgtagttgg caagcttatac ctggagatga ctggatatct ccatttgcag 240
tggaaagtcag acatacacata ttttaataat catagcaacg gtggtagcag taataatagt 300
gaaagcccaa tttcagcacc tagaatactt gtattatatg gttcgtaag acaaagttct 360
ttatcccgta 369

<210> 3188
<211> 382
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-C6

<400> 3188

ggcatttgtgg ttgcaaaggaa gtttgtatag gtgggagtag tgaagataag caacaagaag 60
aaacatgaca agcactgtac tagttggaa atggacaagt ttgctacgtc caacgttggg 120
aaaaaaacacg gtaccagtaa caagctggag gaggggtttc gttcccttt ccccaaagga 180
cttcctgtt ctttgtcca aacctgaggg ctcgttagaa tatgtatgtttt ccaagttgga 240
cgaccttgc aattgggcta gaagcaattc cctatggcca atgactttt gttggcttg 300
ttgtgccgtg gaaatgtgc atgcagcagc tcctagatat gacatagacc gcatggggat 360
agtcttcgt cttcaccta ga 382

<210> 3189
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-C9

<400> 3189

gcgtcagccc aagcgtccgg cttggagaa acggatcgat ccctgttttcaagagacaa 60
tgagcagcac caactccacg acttgttcgc ggtttcaact tttacaagct gctttgaca 120
aggcggtttc cacgttctta gaaaacggct gttttactc taagtttcc gagttttcc 180
agccccgttgc ctctgtttat ccagaggaat ttgagctgtt gcataaacaa cttccaacaa 240
ctcttagata taagactaaa gcaagaattt cagttattgc tccaagataa agatattgca 300

actaaactcc aggttgcga ccaactcttc caaacgtatc atgtggatag aaacggttat 360
gtgagaatac ctttgaa 377

<210> 3190
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D1

<400> 3190

agcccacgca tccgggtcg aagcggtgtc gttatcgat atggcggtat ttgaaaagtga 60
tatagttgtt cctgcaattc actttacgaa aaagtataat tcaaggaggc gctacaagga 120
gtgcatttcg tgcttagtg ctgcgggtgg taaaccaggg tggttctttt gacataagcc 180
gaaaattact cgcaacgggc tatacgactg ataagggtat gaagaccaat aatggtgctg 240
ttcgagaaag tgacttttac gagagagtct tttcaagaat agcttcaaag cgctctgact 300
tttggaaaga agtttctgta accttagtag tctctaccat tgacaccgag tcggataagg 360
ttatccatgt gtggAACGCG ttt 383

<210> 3191
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D10

<400> 3191

cgcgtacgca gaagcggtgg agagattgga agagtcgtcc tggtaacta tggcaaagac 60
cgaggcaaac tgggagtcat tgtggatgta gtagatcata atagggcggtt ggttagatgg 120
ccactcacgg gacttgcgag acaaaccatc aactggaaga gcttaacggtt gaccccggtt 180
aaagtaaaga ttcaacactc cagtcgtaca ggagttgtga gaaaggcatg tggaaaggc 240
gaaaatcactg gaacaatggc aaaatacggc gtggatataag aaactttgtg cacgaagaaa 300
caaacaaaaa cttggagact ttgatagatt caaagtgtatg attgccaaga agagaaagtc 360
ggctatgatt catagt 376

<210> 3192
<211> 337
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D11

<400> 3192

caattctcgt ttttatctta cttgggcaca gattgagttg cgtccaaaga attatgaaga 60
agctgctcgt ctcgtctctt tggtgagcc attgggacct accaatgtgt atctatggca 120
aacctatgct cagatagaaa gtgctcaagg tcatttggga caagcctatc attactattt 180
gaaggctctt gagttggatt ccaacaatgt aaagagttat ggaatgtctg gcaaaattgg 240
tagccaaaaaa ggtaatgtt gatgaatcaa ggagtatttt tataaaagct attgagttgg 300
tcgaaaaaga tgcccgaaa tatgcattt tggccaa 337

<210> 3193
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D2

<400> 3193

acggcaacgg aagacacgtt tgtacaactt gcggaaactt taggagatgg gaaaacgccg 60
caagttatga gaaaaagata ttcacagttt ttgcgggtggg tacagcaatc ttccaaatct 120
gtccatcgaa acaacaaatg tgagacttga atgttattt aagtttattc tccagagcgc 180
ttgaatggtg gtagacgtt ttgtataat aataagtcat aactgggttt tcgtccaatt 240
gttaaggaca tcactaaata cagttccctt aacggcataa caaaagtcgt ccaaactgaac 300
gttacagaaaa atcttatggaa agctttccac actgctccat tgtaaagtta tatgtcttga 360
aaatgaaagg ttataacaaa tatcaaaata aa 392

<210> 3194
<211> 379
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D3

<400> 3194

cccacgcgctc cggtcgattt aaagtggaaa aggaatttgc tggcgactt cgaaaggc 60
ggcaatttggc actttattgg cagaaggaac aagtgttgc ctgagtggc aagatagt 120
aagaggaact tttcccaac gtcattcggt ttggatcgat caagaaaatg aagctgttca 180
tattccttg aacaacttgg gaatgacgca agctcgtttca caagtctgca attcgagtct 240
ttcagaatat ggcgtgatgg gttttgagtt gggatactcc ttggaaagtc ctaatattct 300
agtgatatgg gaagctcagt ttggagattt tagtaacggt gctcaagtta tcattgatac 360
cttttagcc gcaggagaa 379

<210> 3195
<211> 364
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D7
<400> 3195

agcagacgctc tccgtcaggt cgatcatcag atgtcgagc caatggagat gtcgcttggc 60
gtgtttcaag ggaccctaaa gtgcgacgca gactgagacg gtgattgcgg tagcacttat 120
cagttgaact ttaaccagta tggtcaccat ttcaagtgc acgttgcacga gagaatgtgt 180
tctgcacatc gtgttggcc tcgcgtcggg tctcgctca agggagaccc tctaggacag 240
tcacaaccta tgtgaagaca atgggggtgc gaattgaatg gatacagttg tgacgatagt 300
tgtcaacgta tgcattccgtg tcagcatact gggagacacg agtgtagaac cgtcgccctca 360
tcgt 364

<210> 3196
<211> 399
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-D9
<400> 3196

ggtcggccac gcgtcaggaa aagaagaaag tgctgctcgt aaacaagcac gaattgattc 60
tggtaagaa actattgttgg gggtaacaa gtatcggttgc gagacttcat catcatcttc 120
caatacagac tcttccagtc agaagtctga acagttggaa atcttggaaa tagatgcaca 180

acgagtagcga gattctcaga tagaaagaat taaaaaagta aagagttagc gagatgagga 240
gaaaagtcaa gcgcgtctg atggagctgg aggaagcagg aaaagataaa agcaagaatt 300
tattggaggg ctcagtaat gcagctagag ccagatgtac tttaggagag atttgtggtg 360
cgctggagaa agtatgggg agacatgttc ccaaagatg 399

<210> 3197

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E1

<400> 3197

cccacgcgtc cgaaaaaag atggtccaag agatgcacg agcggttgc tctcacgctt 60
tacgtgcata tgtccctggc aagtttactc gttccgtact aagtatcttgcattataa 120
gtgcaggtgt tattggtgct gtgggagttt ttttttttatttctgtat atcaatccga 180
gaaacgttat catcaatgtatctcatta tatttgcagt gttgataatc ctcccgagtt 240
tgggtttcag ttttctgttg aagcggttttgcgtttttaga tacgttttttggacctggaa 300
tattttacat ttcgtgggt ttactggcag tggatacgca ctgggttcag atattggctg 360
gtgtatttgc tgccg 375

<210> 3198

<211> 391

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E2

<400> 3198

agccccacgcgtccggtaaaa tatgtcgaac gaaccaaata tttgtgagggc gttggagaca 60
gctcacaaaaa cgtgcctccg taaagttaaa cgagctcgga acaaggaagc aaagttgaaa 120
gagtgtcaga gttattttga tatgctgaag gataatagtt gcccttgaa acctgaaaca 180
agcaagcagg acgctgagaa atagtgaagc taaaatatca agtagaagga aacataactga 240
ttttaaggaa acgaaggaag tttgcagttt tatttgcgtact agtaacaagt atcaacccgtt 300
ctcgccctgcgtccacaa gactattttt ttacaacaaa gtaggacgca agacaggat 360

atacagtgtacactaccccttc cctttggag t 391

<210> 3199
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E3

<400> 3199

agacatttca cactttatg ggcatttgtt ttgcgaagct ttggcgaagg ctttatcgaa 60
tacaggaact taaaatgtatgt atgatacgctt ttgataatgc acgcaagact actataactgt 120
atcgacttca tttgggagat gtggtaatca caacacccac tataagaagt aatgtagaac 180
aagtcaagtgc tcgaaatctt ttatccaatgatggactt gggaggacaa gacagtcttc 240
gtgaagcttg gcaaacttat tttgtgaata cgcaagccat tattttgtgtt gtggacagtt 300
gtgatagaga aaggttcgat ttgtctagaa aggagctgtt gagagttta cgaatggaaa 360
atctatccaa ggctgtgttg ttggttttt 390

<210> 3200
<211> 130
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E4

<400> 3200

agacaatgttgc gagctattgc caggcacttg gcaaggaaac atgacaataatgatggaa 60
gaagagaaaa aagccttgaa cgatatgctt tatgatatga ccgtcgatatacagcata 120
tacctaaagc 130

<210> 3201
<211> 180
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-E9

<400> 3201

actgagttatc aggaagaaaa gagggagtag atgaggaaag aaagatcaag gaagtaagag 60

taagagaagg agtaatgtga atgaaagcac gaaagtattt gaagaagaga gtgtaaagcg 120
cgtacccccc gcataatgtc ccagcgagtg aaagagtgaa gcacaaagaa agaaaaagaa 180

<210> 3202
<211> 292
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F1

<400> 3202

ggaagcagac cacacgaact ttggcaatgg catattctgt ttggataaac tggactgggt 60
ttccaacaga aaattggaaa aggttgcagc tctgccgtga ccgagatgct gcaaaagtaa 120
tcgttgacaca gttggataga ttgacggcag tcatttcggt catccgtcat cctgcaaaat 180
gctttcgtct aatgtctcac gtgtaaaaaa tgcatgttta cgaagtgccg atcgcttcta 240
acttttcctt acaaaaattt tctctggaaa attaagtcga gaaatatcaa tt 292

<210> 3203
<211> 372
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F11

<400> 3203

cacgcgttag agcagatttcc aacggtatcc tggtaagg aggaaatatg gaggttgtca 60
aggtcggctt tgttagcttag cagcctggg agagctacag taccaatcggt cgccagcttat 120
tacgtacaaa acgtggcctt ggtcgactc gaaatgtttt tatgacagtt acaccagata 180
ggaaacttgg gacctctggg ccagttccac ataccattgc accctcttgg tggaaaactt 240
tcggatgaag agaagaagag agccatgcag gtaaataagc ctgaaggagt tacatttct 300
gcaaagtatg tggctttga ccaggacgt gattccgaat atgacttgaa tcaagtcgtt 360
tatccagcaa ag 372

<210> 3204
<211> 388
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F12

<400> 3204

gcgtaagaga gagaatgccg ccagtctccg cgtttgggt tggcacacct tttgttag 60
aaactggtta ttgcacttgt ttgcgttgca actcttcaa caacaagtgt agaaaacta 120
acttgtactc agtgactctg ctcacaaga aatggagtgg tacctattcc cagttccatg 180
gcaaccagtc cattttcgca caaactcgac tcccttttc tttcattccg catagaaaac 240
aacgacgata tggacctttt aaaccccatt cgctgtgaag aagaagatta ttatagtgtt 300
cttggcggtta gtcgtaatgc aggtacccgag gatatcaaga aagccttag aagactcgct 360
agacgttatac acccagacgt aaagaaaag 388

<210> 3205

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F2

<400> 3205

aggtacttgt cagttggcaa aacaggcttt cgatgatgcc ataacagagt tagatactct 60
ttcggaaagag agttacaagg actctactct cattatgcag ttgttacgtg ataatcttac 120
cttgtggact tcagatatgg gcggtaaga agatggaaac gcaacgaaac cagacggaaa 180
agttgaacca gacccgaaca aaaaggagtg atagataaaa gcatgtgcga tatgtgtgtt 240
tttggtttcg actcgacat tgctttgca cgataagaac aaagaaaagag agataacttga 300
atatgcaaga cagatgaat 319

<210> 3206

<211> 382

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F3

<400> 3206

aggggttgtg gaggtggat gaggaatgt taggttgca gtagactata cttttcttgc 60
cccccatgag ggtaaaagca aactatgatt gaacgccttc gctgtgtgt ttgtgggtt 120

accgatactc ctttgtggag aagtggaccg agaggaccga aaacgccttg caacgcctgt 180
gggggtgcgtt ggaaaaaggaa aagttgtat atagatggaa agcaagcgctc cccaccttca 240
gcgacaatag agaaaactag acaaagcaa gcaaaggttt acaaagttac cacctcgctt 300
caactccaaa gttatgatag tcctcaccaa agttgtgcag tcgaagaacc acaaggctcc 360
aaatatgagg ctttccaaa at 382

<210> 3207
<211> 388
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F4
<400> 3207

agaaagatta aagagtcgcc ctggtcgacc atcaccgcca tttcttaggat ttattatggc 60
tgcaaatgga tatagtttag acaagcaatc cattgaaaga atattacgag aaattgaaga 120
acaaaatcct tggtcacaaa cagtatcatc agatgaaaat ggtgaggtga aaagcttata 180
aaaatgttcc acccaaggc tttacgtgaa ggttgatata acaagatgta aataatatct 240
ttgtgtgata tcaaaccgca aataaggacc gagatcaaaa atcgcgctt acgatacggg 300
ggagtgcattc aagtaaaagt ctctcatctc agacttcgca aaacattatt aaaaggttt 360
ccttattcaca acttatctcg aaataata 388

<210> 3208
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F7
<400> 3208

ccacaaggta atagttagtg gaggagatga acctttcctt tatatatggg atactcgctc 60
gggaaagctt gttaacaagt tagatttggta tgcccattgt atcaagtctg ccgaaatatc 120
gagcacgggt tcttttacca aattaactgc agtaactgga aatagttac aattttggga 180
cttgaatcaa ttatgttagaa tggacactat gtctatttca caagatgcag aatgtgctag 240
ctcaagtggaa aatcacgtcg tcgtcggtgg tcgtgacttg caaattcgac tctatgacac 300

aaatacaaag caagtgtac atactttca tggcatcat gcccgttt ggtgtttcg 360
tttttctcct ttaagttatg gtttgcc tc aagg 394

<210> 3209
<211> 227
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F8

<400> 3209

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaacaaaaaa accaaaaaaa aaaaaaaaaaag ggaaatcaaa 120
aaaggggggg ccgcctcga gttctagtc ttttttccc cgtccagcca attttagacc 180
cttccattt gttccctaaa ctccatttc atggccggtc gctttta 227

<210> 3210
<211> 326
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-F9

<400> 3210

tgtggtaag ttattacca ggagtccccg ttggatgtt cattataggc tttaattcc 60
gagctagcaa catccatgtc gaagaatgaa ttacatttgg ggtatcata acatattata 120
tgtttgggg ttctggatg ggaccttatg ctgggtact gggatcggtatataatccaa 180
cttatattcg aactgaatga atggcgctag ttactttgt ggacatacat tgaaaacttt 240
aataacaact aatgccttc caacaataaa agaacaatta atggctcaag aaatttcaat 300
gggttttaag gaaggttgt taacaa 326

<210> 3211
<211> 285
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G1

<400> 3211

agttctctt caaaatccag tcacaggact tggccttgca agtatttgga tcgtattgtt 60
agttctctt agttattcta tagtgcgtcg tagagagatg atacaaaagg cagtccaaga 120
acgttacca gagaaagtat gaagttgcgt attttatTT taggagacac tggagtttgt 180
aaaactgtaa ggtgaaagaa gattggtatg tcttagtaaa ctcatagagt tactaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagag agaag 285

<210> 3212
<211> 61
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G11

<400> 3212

aacacagcac tctgcagaaa agagaaaatg taaagtataa agtgtgcggc ctgccaataa 60
g 61

<210> 3213
<211> 392
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G12

<400> 3213

cgcgtcagcg gtagcgtggg cggacgcgtg ggccggacgcg tgggcggacg cgtggggttg 60
aatgagtgcc gtcagttgta tgaacgagcg gcttatttga cagattcgg aactgcgaagg 120
tttcgggtgg aataccattt agaaatgaac agagcgctt atcgacttgc ttatgaacac 180
tggaaagcac atatggattc gggcaaaagt tgggagcaag ttttcagact ttgtttacaa 240
acagcgcacc ttttgcaac tacaaagtgc ccaacgataa tatatttata tattacttgt 300
ttctcgaacg gtatctcgaa tttcttccat ttcccattct gctttgcctg tcaacctcaa 360
cagcagattg tgatacctcc aaccaagttg tg 392

<210> 3214
<211> 377
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G3
<400> 3214

agcactgatc cattgtttac caaggaaaca ttcatatacg aaccaaaaaa acgagctgaa 60
aacgcgttgc atagtctctc tttcttcaa tgtttcttac cgcaaactgc atttggtta 120
tatttcttct gaaacttggta taacgcaagt tggacaact cttctgcagc gttcgaaaa 180
catggaacga tgaaagcaaa cttgccctg gttcttgaac gaagtgtgta gtgtaaactg 240
tgaaactaca gagtattata aaaagaacgg agttcgtgag catccatacc aaatatgaat 300
tcacccttggaa tatcgaaaac actccctttc cgtttttctt cttcagcttc ttccggaaagg 360
gctttcattc gcagttt 377

<210> 3215
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G5
<400> 3215

cccacgcgtc cgccccacgcg tccggacaat acctaggaa tatgttgaat tggcaacttg 60
gcgttatcaa cagtttaatg ttcgaagagg tgcactgttgc aatagggagc aaagcaagga 120
atcagaacat tccaagttgg agagttactc aggaaagctg ggaggtgaat atttttgttt 180
gtggtttagt gaaaatgttt ttagtgtcga cacaatagaa gattatcgca agattgcagc 240
gcatcattat tggcgttaaga agaatggca taacgttaca aaccaaacgg aaaacgacga 300
atctagtaaa agtgcgtta ttttggccga gagagaagag aaacaattca cggattcgg 360
atatagtgag aaa 373

<210> 3216
<211> 372
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G6
<400> 3216

ccggctcgac ccacacgtcc gctgagagga ggaaagccac attggaattt agaaaaggc 60

caaacaagag aagtcaagcag tgggaaaat tggcaatgt acaggaaat atgacccagt 120
aatgaggagt ggagtaaaca gaaaaggaag taaaaggagg gaatgaaggg aagttatggc 180
aaaaacacgt gccagcagca gcggtaaaac gtgttagca agcgtagagc agaagaactg 240
ggtgtaaagg tcgagtagta gagtaagtgt aaaagggaaa ggaaaggaga gaaagaggaa 300
agggatgaaa tgcagagatc tctagagaaa ggcaagaaag aaaagaaagg aagacacagt 360
aatgaggcg ag
372

<210> 3217
<211> 369
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-G7

<400> 3217

gaggatctcg taatgaagtg gaggttgata gcgcgttttc atccaatcga cgtcaagacg 60
tccatcgaga gtttgtaaac acggagagct cccattctcg ctggaaggac aacaataacc 120
atgaggttgc ggacaattcc attcgagtg cctcaagaag aaacgtaatg atggttgta 180
gtttagtga gaattcacgt tcgttcccg caccaagtag aattcgaaag tccagattcc 240
atccatcagc gagacagtgg agtccgaata agaaaccgcg tagaaatttgc gatgcattgc 300
gtgactttcg gaaacagaat ggatggact gacacgcgaa agaaagaatg tcagagaggt 360
tggcgggtt
369

<210> 3218
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H1

<400> 3218

agtgttggtg gtgaaaggcg taactttgtg ggtttcctta caagatgtct tttatatttc 60
gtgaaatcaa aggccccc aatcctcggtt atggacaacc cgtggattta cccaccggaa 120
taatgtatag cttgaagcaa atgtcgata ttgtccagtt tgcttttct gtttagtca 180
ttgctatgtt ctcccaagtt acctttatc tataccgtga cttaagtgt gcttcgtatg 240

ggcattggga ttacgccacg catagcgaag tgtctggtcc tgtggttat tgccgttact 300
tcattgctt ggggagcatt tccatcgta ttttagctat tgttgccgt a gctacttttg 360
gaacgctgt a ttttga 376

<210> 3219
<211> 206
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H10
<400> 3219

cacgcgtcag acacaattt aagtttgg ggcaagttga gctttgtat tagcacctt 60
tttgggttt ccctcggtt gtttgtt ttcaaaactc gaagactagt tatttcctag 120
tatattttag aggcttttc tagagttgc ttttggaaatt gggaaaaccc gttcctcgta 180
ggttgtaaag gttttatca acaaaa 206

<210> 3220
<211> 318
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H11
<400> 3220

tcttggaaaga cataactgca agtattgaaa agcctgacat aaaatggata actaggacga 60
atctcagttac ttgtctgaat tctgcagaag gaaatgtcac gtttgacttg tcgcggcagt 120
gtagcttgaa ggatatattt tcattgaagc ttctcgacaa taactttaag ttggcgtgtt 180
ttaatgatgc cttgtttttt agttttacca ggcttattcct ttgttattac tggtaatcgt 240
atattctgt a gacgctcgaa cttgaatgaa acggaagcat tggagtccgt ctttcgttt 300
atgaagat a gccccacg 318

<210> 3221
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H2

<400> 3221

aggagccaac caccaacaac acgagatgac cgactccacc gctgctagtt ggagaacgag 60
tacttcacct tcttgttcca ctttcttatac atggaagcgt ctatgggt tgtatcaacg 120
ctatatattg cctgaatatac agaaaacctct gttgtatact ttcccttagaa tattatttct 180
ctccttgcgg cgactcgat ggaaagtatac tcctctagac ttgtttcact gttggacgt 240
ggaatattat ctacaaaatg aagacggcac tacatttggta tatgtatatt ttcccttggg 300
caactattcta tggtttatta tcatagtgac tgtatattaca aaggtAACCA accgtttca 360
gtctcactat tattcttagaa gaacgagttt gatacttggtg tgtgtg 406

<210> 3222

<211> 358

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H8

<400> 3222

ggcgggatcg aaactaacga tcgtggactt ttgcactaca tggtgtggtc catgcaaagt 60
tggtgctcca aatatgaag aactcagcga aaaatataa caagttgtat tttgaaggt 120
tattggggac aagaatggag aaaccaacaa aataatgaag tccttcggta tacgagcagt 180
accaacgttc aagtttatga agggaaagaa aagtattcac gaggttgccg gggcaagaat 240
cgatgcgttg gaagatggca taaagagcta tatgtatTTA ctttggagc aaatgaataa 300
gcacctttat ctatTTCCA tatgaagaaa ataaaaacaa tttatgaagg gaacaacg 358

<210> 3223

<211> 338

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-063-Q1-E1-H9

<400> 3223

acgcgtacga tttagaagga gattcagcgc ttagaaaata tattaaaaaa cgaggaagga 60
aatatcacag attcgaaacg agccaaTTT ttgcgtcgTC ttcatatcct aaagtcgttc 120
ctttcgaatg aaacggagga aacaaattcc taaaagttgc tgtaatgttgc tccagacaca 180

gatattgtca ttcacagtga ataaaagaaca gaaatgcttgcggaaaaaaa aaatccaaaa 240
aaaaaacaaacttcaaaaactct tgcaaaggat cgaaagagat cactaaattc actcacagaa 300
tcgataaaaaa aaaaaaaggg ggggccgccc aaagggtt 338

<210> 3224
<211> 331
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-A1
<400> 3224

agcccaagcg tccgccccacg cgtccggaa gaaagaggca aatacggaa agcagtaaaa 60
gaagaaaagag aaaggaaaaa actgagtatc aggaagaaaa gagggagtag atgaggaaac 120
aaagatcaag gaagtaagag taagagaagg agtaatgtga atgaaagcag gaaagtattt 180
gaagaagaga gtgtaaagcg cgtacccttt gcaaaatgtc ccagcgagtg aaagaggaag 240
caaaaaggaa caaaaagaag tagccagcta agacccgaga cctagtgtatc gtatgctgtc 300
caagcgaagt aaggctgaac cagtatctgg t 331

<210> 3225
<211> 348
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-A2
<400> 3225

ccgggccccggg ccacgcgtca ggctagcggt gtgggaggtt tttggaaagt gtccaaaccaa 60
gtgaatccat ctcgactgca gcgcggaa aggaatgaaa gagtgcaag agcacgttgg 120
gaactttatg actccaagtt gccaaaggaa cttcgagcac aattaatgcc aagttctgac 180
aaggaagtac gaagtttgtt ggaaatgaga atacggaaa tgatattgaa cggagacttt 240
gaaaatttaa aaggcaaagg aaaaccattc aactattctg atgctgcagt gaggtatgtt 300
gacgttgcta tgaagatgct taaaaacaat gattgaagc caccttgg 348

<210> 3226
<211> 360

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-A3
<400> 3226

caggtgatgg tttaccgggc tcgcccacgc gtccgaaaaa aactgggaga aacgacacgt 60
tatcggtggc ctcatcgta ggtctttgtg tgaggaatat caacgacagt attcagagct 120
atgttcacccg aatgaaagca cgaaagatata gctacttagta aacagattgt ttcaaattcg 180
ggaggagtcc agacaattgt ct当地ttcaa acaaagagtc gattgtttt tgccgacact 240
tgaagacagt tggaaatttga taaaagagac gaggggagca catacagaag agaagcttc 300
cgaggagaat ttgtcggca atagtatgaa gcaagtcgtg actgacacaa tagacttgct 360

<210> 3227
<211> 362
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-064-Q1-E1-A4
<400> 3227

ggtcaggata tccgggccga gccacgcgtc agcccaagcg tccgctcttc aaaaaacagt 60
ttctgtcctt gtgttgttg ggtaatgtct tccgttcgaa gggctagctc aaataccca 120
gctactcgta caagctcaag tacttcttcc ggcgctaaca gaaactcagc tgtgggttca 180
aatggagtg ctggtaatct atcgggttca gcaaagagaa ttcaaaagga gctagcagaa 240
attagtttag acccccctag taactgctca gccggccaa aaggagataa cttgtatgaa 300
tgggtcgcta cacttatcgg tccagcaggg tcaccttatac aaggaggtgt cttttcttg 360
gg
362

<210> 3228
<211> 334
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-A6
<400> 3228

aaggagatag caagggttat gaaaattta gtcagtgtaa agcgtgtgt cgactatgct 60
gttaaagtgc gagtaaaacc ggacggttcc ggaatagatc tcaacaatgt gaagatgtca 120
atgaacccgt tttgtgaaat agctgttagaa gaagcggtac gttaaaaaga gtcaaaagtt 180
gcatacagaag ttgttgtgc tactgtggaa cttcgcaat cttctgaaca aattcgtact 240
gcgttagcta tgggttgctg accgaggcat acatgtgcaa gtggacaag agttgccgccc 300
atccatcggt tcaagagtct gtcaactcct tttt 334

<210> 3229
<211> 311
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-A7

<400> 3229

caagtattca aataccaagt acaatacagg tttaccattt ctggatgcag tgtgaagaac 60
gtcagatagt cttcatagag cagaaattaa tttcgaaat tattactata taatcaaagc 120
tcttacttta cgatgttaggg acaatctgaa agtgctctt agatagaaac ttctctcaga 180
gtagttgcgg ggacgccttc gtctcggtt accaaaaggg tcttttcag tgcaacaatt 240
tcgtttgttc taatatcttg agcttatac accttccat aagtaccttc tccaaaaaaa 300
aaaaaaaaaca a 311

<210> 3230
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-A9

<400> 3230

gaccacgcgt acgcccacgc gtccgattta tcggagtgtt tcgataatgc actaaatgag 60
ttggaaagct gcaaatgtat tgcgttgaa ggtcctgaag aaaatgagga agagatgacg 120
gatgaagtgc aagtgaagaa ggaagatgca gatactgcaa taggtccatt gaatttgggt 180
atgattgctg cattttatta tatacgatac acgacagtgg aactgttgc ttcgagccat 240
aagcgaaaag attcgtctga gaggtctcct ggaagtgcta tcttccgcat ccgaatatta 300

tactgttcct atacgtgtag gtgaagatga aatttaaga aagatagcta gtcatgccc 360
gttgctcct attggaagca g

381

<210> 3231
<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B1

<400> 3231

cacgcgtcag cccaaggcgtc cgggtgggt aacggatgaa agaccactgc atgaggataa 60
ggaatctaac tgagtaagga aaataagctt aagctagttt ggctgggaa gtaaaggccta 120
agaaagagta aattaggcaa gcaaaggcat gagagaagta taatagcaga agcatgctt 180
aagaaaaaga aagagatttc agaaaggaa gaaaagttag ctatagagaa caggtgaagg 240
agaactcaaa aagaggagag caccgaacga tcgaagaaga aacgttgggg gtaacagggtt 300
aatgtggtgt tagagaacgt atcaaggcacc acga 334

<210> 3232
<211> 334
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B2

<400> 3232

cacgcgtcag gtgatcctct ttcttggcgg catgtactga caagcaaaag taagacatgt 60
tcttgtctgt ggaaagaaac actttgtcg taccatcata ttcccccagt tattgctgcc 120
atgcttcgtt ccacataggt gcaaggcacga ggaaacttgt gcctaaatct tcctccagtc 180
tctacgaaat accatcggtt ttaacttaggt ggaccattct ccatcgtcgt catcattgtc 240
ttcttattcc taccagtggc taccacaata ctgcaacacg atgtggcaag tcgtctcagc 300
gcaatacaac ggacgatagc ggaaacagca acaa 334

<210> 3233
<211> 317
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B4
<400> 3233

cacgcgtcag gcgactttt aagcagttcc acaggcgatg cgggactgtc ccgttcactg 60
tcggctttc tactcaaaga agacttagtt caaacgcctac catactatga gacgacgaag 120
cagaacatac aagtgtcggg ttccaccaaa gtttctcccg agtccgccta ataaataaac 180
tagtacgacg cgtggagatt tggttccttc tcaagcaaga taacagctgt aaaccaatcc 240
ttttcccagc taacagccta gcaggagatg agcagtttag cgggaaacag agcgatacaa 300
agtttgctgt catttt 317

<210> 3234
<211> 325
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B6
<400> 3234

agcttgttctt tggcggttgcg tcactatgaa aattcgttgc tatccacgct ttctcaattg 60
tctctagtagt ggagtagaat gaacttggag tttccgacag attcagctgc atttcatgtt 120
atgccgtcta tacatttca ggaatcatct gaagaacaag aaggccaag tggaaacga 180
acaacatttgc gtcccaatga atggaaacga atcgttgcg aagaattgcc ctacaataag 240
atttacatttcc catgcacgc cacttcgaat ggaccagata ctctattcaa gttacgtgaa 300
catactaaga atgaaacacctt gcttg 325

<210> 3235
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-B8
<400> 3235

aacatgaagt tggacttagtt cacgtaaatg taactcctat gccgtggatg gtcctggttt 60
attaggttgt gagattcgatc agttcttatac gtgacttgc gcaaagctga ctggtaaat 120
gtagtttata tatttcaggt gttgcaagga aagattccga ttcgaataact tgatggctt 180

tataatctacg tcaaaatgg tctagctagg ttttttgc ctgtctgtaa aacgtgcgag 240
aaaccctgtt cagtaagctc tggttatcaag tctctgggtt cagtcgaata catagcaaac 300
tctatacgac ttgatagttc gatagagtgc gt 332

<210> 3236
<211> 265
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C1

<400> 3236

cacgcgtcag gccaaagcg tcgccccacgcg tctggccacg cgtccgcggc 60
cacgcgtccg gccacacgcg cgccccacgcg tccgcccaga cgtcgaccgc 120
atgtttact ggatgctcga aaatgctcct cgaacggact tatagatgct tatcgatgaa 180
gctttccgcg gtgtaatgac ttgtataat aaagttgggt tgcttcatt tagtacgata 240
gacaatcacg gtgtttccat acgtt 265

<210> 3237
<211> 357
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C12

<400> 3237

cccacgcgtc cgccccacgcg tccgcccacg cgtccgcgtc cttttgtcgt aaatgtattt 60
tttctgacaa agaatttgaa atgtggggcg atggagaaca gactcggtca ttttgctata 120
ttgatgacgc tgtggaaagga gtgattcgct tgatggagtc tgactttgct gaacctctga 180
atatttgttc agaagaaaatg atatctatga acgaaatatgg caaaactcat catgtcattt 240
gaaaacaaag acctgaaaat caagcatatt ccaggtcctg aaggagttcg tggcagaaac 300
agcaacaatg agctttgcag gaagggttttgc gatggaaac ctaaaatcag ccttgcc 357

<210> 3238
<211> 332
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C3

<400> 3238

agcggattt ataagacatc gtacagacgg agatattgaa aaggctagac atgatgataa 60
cgcagatcta cgagatccgc aacctgatga gagtagagta gaggatcctc attggtagt 120
ggttattggg atttgtactc atctaggctg tattcctata gccgacgctg gtgactatgg 180
tggctggttc tgtccttgc acggttctca ctatgacgtt agtggccgca ttcgaaaggg 240
acctgcgcct tccaacgtgg aaataacctcc gtacaagttt agcgaagatg gaaaaatgat 300
tattggatag tttgtttgga atgtttcggt gt 332

<210> 3239

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C4

<400> 3239

ccggggccggc ccacgcgtca gcgaagaat caacccttg tttgggttgt cagatgaaga 60
tttactgctg ttacaaggca gtccaaacctt atctgcttgt cagcaactga gagaaaaact 120
tgtgagagag tatacatatc tagagaagca tattattcca caaatcccga acctggcccg 180
tatagacttt agacaatttc agtggcatt tggtattctt tttctagag ctatggttt 240
tccttagtacg aagagaattt cattggtacc ttatgcagat ctgctcaatc agagtccctt 300
ttgttccgcc tttattgatg aagaaagtat tccacttgaa aatgga 346

<210> 3240

<211> 319

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C7

<400> 3240

aaaagaagag tgcaatggtt gaaaagtaga aacagagtac taaggtacct gtagaggcgc 60
acttgaaaaa gtggtcacgt cctttacat gtctacaagt attttttttg cttgtagaga 120
ttgcaagttt agtgtacttg acaaggtttc caagtatcat tcagtgccct taagcacgtg 180

tgagtgtact tggaacttt caagttgaat aggttagacgt ttttgcgaa agtatgtaga 240
aaaatttgaag cgtttattagg ttaagctaga agaatttacc atacgagaaa agtaaacttg 300
aaatttttct gattaaaaaa
319

<210> 3241
<211> 359
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-C8
<400> 3241

aggttgcggt tgacgtgggg tagtgtcaa ccaagagtcc ttggcacaca aactatgtcc 60
acaacttcat aagtttgtaa agttttagta cttgcaatga gctatctgtt aggaaatacc 120
gaacaagatt tacaagccaa gaaaccaaca tatgaagaac tggtgccga actatctcaa 180
ctcaaggcgg atttatttcgc agaaagacac aaaagaaagg tagttgaaca agagttgaaa 240
gagttgaaac agttgtcggt ttcttaggcag actcatatcg aggcaagaaga ggagtatatt 300
gcgaataaaac tcataaaaacg gctcagagag ttgagggagg aaaaggaacg ctggcggt 359

<210> 3242
<211> 323
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D1
<400> 3242

ggaagaggaa agagatggtg gacaaggcaa tagccactgg acgtttcaag gaccgagttt 60
ttattataac tggcagca ggttagtttg ggagtaactg tgccaatcga ttgcgtcag 120
aaggtgccaa agtggttatc acggatattt ttgaagaagc aaagcttcaa gaacaagcaa 180
agaacattga aaagcagttc aacaccaagg cagttgctgt tcgttgtat gtgacaaattt 240
acactcaagt agagcaggtt gtgaagacgg cacaccaagg ttttggtaga atagattacc 300
ttttcaacaa cgctggttat caa
323

<210> 3243
<211> 360
<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D11

<400> 3243

gacccacgca taaggacaag tagcaaaatg ggcaagtctt gtaaaggctt gtttgatgaa 60
ttggttcggtt gtctgagtaa ctccgagtgt gtgaagaacc atcctgacaa aaagactgct 120
ttgaaaagact gtgcaaagag taatggAAC gatgttcgg actattgcaa gggagtaaag 180
gactcgatt ataaatgtcg tcgagcagcg tttgatata gaaaacgcatttccagagagt 240
cccagggtagt tagttgacaa agtagttgt taacaaagta gttgtatatt ctcagaagag 300
ttgcagacat tggacttagga acaagtgtaa gcggctagta aatttttatt cgttatggac 360

<210> 3244

<211> 336

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D3

<400> 3244

cacgcgtcag gtttagatttc ctgccagaca aaatgaacga cgcacaagta aaacaacaag 60
tacagcagat ggtctcttc attaaacaag aagctgaaga aaaagcagac gaaataagag 120
tcaaggcaga agaagagttc aacgctcgaa aactgagtca agtagaggcg gctaaaatac 180
aaattcgctc cgagtacgaa agaaagttt aacaaatcga gtccaaacta aaagtgcgt 240
attctactga acttaatgcc tcaagactac aaatcctgaa acagagggaa acccttctta 300
aggagattta tgaagttgtt gaaagagaac tttcca 336

<210> 3245

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D4

<400> 3245

cacgcgtcaa ccaaatcgcc gtcgtcgtag tacattcctt tggcataact tgtacaacca 60
tgaagtactt ggcagcttat ttttggcta aaatggaaag caaacaaggc agacctactg 120

cagatgatgt gaagaaaata ttgacttccg taggtatcga agtagatgaa ggtcgctca 180
cgcaagtcgt ggaagcttg aacggaaaag atttgaacga gttgatcgaa caaggttac 240
agaaaatgtc tacgggcct tccgggtcca ctgcagctgt tggagcagca gttggtgag 300
caactccggc agcacgag 318

<210> 3246
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D6

<400> 3246

agaatcccc aacgatgctg ttgggtcagg aacctagaca aaccacttcc aacgtggat 60
acttgaacaa acttccatt caagcgctaa tccacggctt aaatcgacat tattattctc 120
tggcagtggc ttatcgtaag aacgagctgg aggaacaaat gttgctcaat ttgcataaga 180
aacactggag cagaggctta aaagtgacag actttgaaga gcgagctgag aaaaatgaaa 240
aggcagttca gtccatgtt gacttggcaa agagttatac caaatgtt gaaagaaac 300
gtcaaatgac aaaggaacag gctgcaattt gaaatgtt gaaag 345

<210> 3247
<211> 323
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D7

<400> 3247

agcccacgcg tccgcccacg cgtccgcaca gtctgtgaga tggcaacgtt gctgcattct 60
agtcatggca aggcacaagt tcgacttgcc accgcagatg gaggaccagg tcgatacacc 120
gaactttcc aagaatttgt ggtccaagtt tctcatgaaa gatgcacgga atcgtcggtt 180
ctccgcggta acaattctca agtagtcaca aacgatactt agaaaaatata aatttactgg 240
gtagtgaaac atcacgctt gacttcgggt gaaaaactgg ctatggacat tggttgtatc 300
ttcatggcac actagacctt tgt 323

<210> 3248

<211> 323
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D8

<400> 3248

gaatggacga taaggaacta ggcaaaagga tatggtatct gcggtagaac atatgaaaga 60
agcagcacccg actgttttagc aaaaacacag cactctgcag aaaagagaaa atgtaaaagta 120
tacagtgtgc ggcctgccaa atagtagaga agaaatcgat gaaaatgaaa gcgagtaaaa 180
gatgaggtat agagaatggc ggtcctaaccg gtaaggatcc aaaggttagcg aagtaaatag 240
acgtttggaa ggcgtccagt atgaaaggag aaacgagtgt agcactgtct agtcgtccaa 300
ctcagcgaaa cagcaataac tgt 323

<210> 3249
<211> 161
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-D9

<400> 3249

cgaccacgc gtaagggcgg tctctgtcga tttgtactct ccttcgctt ttactaaag 60
gagaccaggc ttaggtcgca ttatacagcc ctgaaacaa ttttgcgt ctcgttagag 120
acgttctcct ctacaataaa aactctatta ttttgtttt g 161

<210> 3250
<211> 422
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-E1

<400> 3250

gttatattat tagtctttt gttcgttcta tacttgtaa ggaaccatct tttgtttgt 60
ttgtcacgga gtttatggaa cgtggcactg tccgagactt gttattatcc aaaagtcgtt 120
tggaaatggaa tattcgactg aattgggctt tggtactgc gacaggaatg gcatatttac 180
attcattgga accttgtatt attcatcgag atttgaagac gaccaatctt cttgttagatc 240

gacgcttaa ttagaaata tgtgatttg gtcttcaag gttcatgtct aaagattctg 300
tgatgagtgc agttggcact gttcaagttg cagctccaga agttgcatt cgtttgttat 360
taattggctt ttgtggata acattgatga aaacaggtat ttacacatga gcgctatact 420
ga 422

<210> 3251
<211> 127
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-E2
<400> 3251

aggctatgcg tccgcccacg cgtcggcgca cgcgccctgc gaacgaatca tcattggcta 60
ggccagtcat ttgtgtcag ttccatgtgt ctgacatgaa ctctcccaag acagactttc 120
gtttgag 127

<210> 3252
<211> 357
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-E3
<400> 3252

agtgaaagca agccacagtg gaataacgga gggaaacatc aggagtttgtt ggaagaagaa 60
gaagacaaag aacgaggcat caagtcggaa acgacacatt ttgcacatct gaaacatttt 120
agtaatttga tttcccgaaa aggaactttt caggatctgc tgaatccggt tcgaaagtat 180
ctcgcccttgg aggaatccat tcctcttcgt ttattggaaat tgaaggaaca tttgatttt 240
cgcatcattt ctccagacac tgcattgcgg tttcccacgt accctcatga tcgtctggaa 300
gttcgagtgg aacgaattcc tagcgaagaa ttggaaagggt gatacaaggg atactgt 357

<210> 3253
<211> 215
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-064-Q1-E1-E4

<400> 3253

aggccaagca tcagatggct cctccttaca gtcgttgggc ctggacaatc gttcaaaaa 60
ctgctctgag ttgcctccat ctctcattcc ttatcgctgc cgttagtgca gccgacgtag 120
tttcagagga gagataggga tatactcagc atcctcagta agagcaacag tgacaactac 180
tatcttgaca gttaggcatac tatcaaagtc cagtc 215

<210> 3254
<211> 322
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-E5

<400> 3254

ggataatgag gagagcatcg tgttagcagct ctacacaaac cattacagaa acttcaaggg 60
ttctcaagtt agaccttacc aagaaaccag aagagaaaagt tcgttggact ccagatacgc 120
atgacaatga aagagagaac cgccgaaagt ctaaaatatg ctgtatattc cataagcgtc 180
gaaggcccga cgactcttcg tctagtagtg actcgagtag ttgttagcgat gtggaacaag 240
acaacaataa taagtcgtta ccggaagaga agtgggctct tatggacaag gaaaaccaac 300
aaagcttcct atccgaagcc ga 322

<210> 3255
<211> 315
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F1

<400> 3255

agcccacgcg tccgccccacg cgtccggttg gtgaaaatatg acaggaagag gaaaaggtgg 60
taaaggctt ggaaaaggag gagccaaacg tcatcctaaa gtacttcgag ataatattca 120
aggattacg aaacctgcta ttcgacgttt ggcaagacgt ggtggtgtaa agcgtatatc 180
tggccttatac tatgaggaga caaggaacgt gttgagagtg tttctggaaa gtgttattcg 240
tgacgcagta acttacacgg agcacgctcg tagagagact gtcactgcaa tggacgtgg 300
ttatgctttg aaacg 315

<210> 3256
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F10

<400> 3256

gaccaacgcg tacggcacga caaagccaag tgaggaaccg aatgcaggta cagggcggcc 60
cgatagacag ttgtgaaaga gtgggagaac atgagcgcac agaagaatgt acgaaatggt 120
tagagtaatg gccatagtgg aagtcatagc gggaatctga gaggaagaca gccacgttgg 180
aactgagaaa aggtccaaac aagagacgtc agcagtgggg aaaattgggc agtggtacag 240
ggaagtatga cccaatattg aagactggag taaacagtag aggaagtaaa aggagggaat 300
gaagggaaat tatggcagaa acacgtgcca gcagcagcgg taaaacctgt gtagcaag 358

<210> 3257
<211> 385
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F11

<400> 3257

cgtcgcaacc cgtcttagtg ctgcgact tccaaaatga tattatgggt ttcgttcccc 60
ctgagaagaa ggaagccgtc attaaaggag ctgcgaaact tttgaacttt gcccgtgaga 120
agaagatccc tgttagttcat gtgggagtagc gtttagacc gggacaccct gaagttcga 180
aacgaaacaa gatgtttct cttgttcct ccagaggccc ccattcctgt ggaaggtact 240
cctggaaagtg accacgttagc agagttgaaa ccaattgaag gtgaatttagt gtttacaaaa 300
agaagagttg gggcacatta taataccat cttacaacca ttcttagcgc tttggcgct 360
acccacccatga ttttggaaag ttttt 385

<210> 3258
<211> 327
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F2

<400> 3258

ctcagatact actatccgac cacaggatga cgaagtagtt gcaatgataa aagagttgtt 60
ggagacaaga attaaggcctg cagttgcaga ggatggagga aatatattgt atagaggatt 120
tcatccagat acgggtatttgc tcgatttggaa gttgcaaggc tcttgacta cttgttagttc 180
gagtgttagta acgttgaaaa gcggagtaga gaatatgctt atgcactata ttccagaagt 240
caagggtgtg agagaagttg taagtgaaga gagagaaagg atggaacgag taagtagaga 300
gcagctgcaa agtttggAAC aaagact 327

<210> 3259

<211> 328

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F3

<400> 3259

agcccacgcg tccggtaaaa gtgacagcga cgagagttgt gccagtgcgc acaagacgt 60
gaaaccttgc accaagagac ttgcttctag aacaaaagtgt atgaagtgtt cgaattgcgg 120
ttccccatact ttgtttcctg tggacgatga agaagagtgg agcaatggcg cgctgcagga 180
ttcgacggat agcgatatta gtacttatgc gcctctcaag ttttggaaaga tactgaatag 240
tggtaaggt cgagatagcg agaaattgtt taggtttaaa cgaactcaag gaaattgtgt 300
cgaggcact gtccaataag actcgcca 328

<210> 3260

<211> 333

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-064-Q1-E1-F4

<400> 3260

acgcgtcagc taattgtana agaatggaaa ctggcgttttgc ttttgcacaga aggcgaatat 60
cgtctgtttc agtggatagt ttttcttggaa ggttctttt atgggtggtttgc ggtgcttttag 120
tctgagcata agaatagtgc actttatgcg gccaaggaag aagctttat tgctcaagaa 180
aggaacaaag aaaggcccat gagtgaagaa tactggagag aattgcaaga aataaaacct 240

agaaaattgg aacagttgta caagatgaag caagaagacg ctgcaaatacg atcagaaaaa 300
tatcaaagggt ggaaggaaaa cctacttgggt tta 333

<210> 3261
<211> 324
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F5
<400> 3261

agcgcatttt tacgcattgt tggttgaaac gatatggcag agaagttgac agagatcaag 60
gataaaagttg ccgataaaaat aagtgaaatg actggaaaca agtcatctca ggaccaggcg 120
aaggataaaag ctagcgaggc aggggaccgt atgaaggatg caggaagtgc tatgaaggaa 180
agtgctcaaa atgcagggga cgccgtcaag gataagatgt ccagcatgaa ggagtctgtt 240
tccaacaaat cggaagggtgt gaaagaagggt ctgcaaaagt agataactccg agtttatctc 300
atttgttgcg tcttgtttgt gttt 324

<210> 3262
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F6
<400> 3262

acgcggacgc gtgggttgtt ggttgctgtt ggtgatcgac acgaaagata ttatcgtgaa 60
ccaaattcat ttatatatca ttggagaatg actcccaaaa aggaaacacc gcatactccc 120
aaaggaggct atgcaaaagc tgtacttgat agcattgtt ctctgaagga gaggaatggg 180
tcctctccac aggccatcat aaaatatgtc aaggctcaca atccgcagct tccggaagac 240
aaacttaaac ttcaactaaa gtttagcttg cgtcgtttgt taaagcagaa gcttattgag 300
aaggtgaaag ctctcgataa gattgcttagc aagagtagta gagtt 345

<210> 3263
<211> 320
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F7
<400> 3263

gttggttcga cgaccacagt gtgcagttgg cagtcgatat atttcgagta gacagaaccg 60
tgtgagtatt ttgaccaggc ggaagaggga aaacttgggg aggtatagac acctggggac 120
aacgactggt tgtttgcctg acgtgccaaa gaataatgtt ggatatgaag gagatggttc 180
agagtctagg gagaatgtat cacaaaaaaag ggatagaagg aaaatagcgt caagtgaaga 240
agaattggca gctctacaga ctttgcctt agagggcttg ttgagttatt acgaggaaac 300
tccccatgttt tcggaggaag 320

<210> 3264
<211> 423
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-F8
<400> 3264

gacccaaacg taagcccacg cgtccgcccc cgcgtccgca tcggaatgct gtcgctattt 60
gttggaaact ggttaacag caatacagga agaattggaa tggaaaaaaa acattgcata 120
gctaaaggta tcctctctct ctctctctct cataggacga gtgatatgag aatataataca 180
atatatatat ttgttggtag aaatgttcaa cttgatgtt ttccctcgcaa tagagaacaa 240
caaacaaggg gcacaaacaa ggttccatt gcaagatgtg tttgcagtat ttgtctctcg 300
cgggtgaaat gattagttgt tgcgtttc tttccatag atttgagagt gatgatgtg 360
attgttacgt gttgttgtt ggtgaaggag taataaatgt agctttgtg atttgcattt 420
atg 423

<210> 3265
<211> 384
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G10
<400> 3265

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tttaatggaa tctgatggaa tagagccgga tagagttact tataacacct tgataaaggc 120
atatggctac atgcgtcggc atgatctcg agaagctacc tttaagcaac agatttccaa 180
gtttggaccg cagttggttg gctttaatac cctaataaatggaa ctatttgcgc aactcaagga attgggtttggaa 240
agtttgctcg tgtcttggaa ctatttgcgc aactcaagga attgggtttggaa aaaccagatg 300
ttaaaacgta ttctactatt atcaatggac aaatattgtc tggtgagaat tcatactacag 360
tcatgtgttg gtatcgacag atga 384

<210> 3266
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G12

<400> 3266

gacccacgacg tacgcggacg cgtgggtcca cataatgata tgaccacattt agaaaaagttt 60
ctggcagaaa cagtttcgaa tgatcccatt tcgggtaaag tgacacaaag gagatttatac 120
atcgtgaaag gaatatcaag caagtttgcg gatgtgacac ctttggataa agttgtggaa 180
ttgaagaatc agtaacgttt tcgatttaatgtt gttttttttt gggtggcac 240
aaggaaaaca ggtcgtggaa ccttagaaca ttttggattt ggaaacaaag atgcagatatac 300
tgttttggca gatctggaa atgctattgc aactgtgggtt ggattctgct gtatgtgtga 360
agaagttagcc aatcatcaac 380

<210> 3267
<211> 362
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G3

<400> 3267

agccccacgacg tccgcgagga gagagagaga gacagacaga tggccaaacgc tggtcaagat 60
ggccttgc aagtcaacaa acatagaaaa gtaaacagat tgcaagaaga taatattttt 120
aatagagcac tatacacaacc aggaggtaaa gtacagaaaa ctatccagtt atccattcat 180
agagtctattt agatgttattt ctgtgtttt gcaacatcca gttgttggta aatgcagaaaa 240

gagctattat aggaaatatg tacgtgtcca gaaagtatcg aagtgtgtcg tctattagct 300
ggacatatacg cagtttgggtt cgatgaacat ttgggtgact ttcggttggg agcgatctt 360
gg 362

<210> 3268
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G4

<400> 3268

ccacgegtca gcccacgcgt ccgagtgaaa ggacgcacgc catgtcgagg agcaatacgt 60
tgcaacaact agtcgacttt tgtacacgc atactttgggt ggataagaac aaccaaacag 120
gaaccttgtat ctggaacgaa ttatctaaat gtgatatat attccaggaa gatcctcttt 180
ttggttccgt ggactcacgc gcagtagt actgggttga acaagcttgg aaccaagaca 240
agagtcaact tttagaatct gtcaacaaac acttgtctaa taagacttag ttggttggag 300
aacgacttac tattgccgat atagcagtgt acactggcct ctattccact gtccaacaaa 360
tgttgtc 367

<210> 3269
<211> 316
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-G5

<400> 3269

aacatgagga agaaagacgc aaatacggga aagcagtaaa agaagaaaga gaaaggaaaa 60
aactgagttt cacgaagaaa agagggagtc gatgacgaaa gaaagatcaa ggaagtaaga 120
gtacgagaag gagtactgtt aatgaaagca ggaaagtatt tgaagaagag agtgtaaagc 180
gcgtaccctt tgccacaatgt cccagcgagt gaaagacgaa gcaaacagac agaataagaa 240
gtagccaggt aagacccgaa gctagttgat cttatgccgt ccaagcgaag taacgctgaa 300
ccagtatctg tggaaa 316

<210> 3270
<211> 379
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-064-Q1-E1-G9

<400> 3270

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ctgttagttca cgattgatac tgctgtttt tttggtcttt ataacgacta taacttttgt 120
aaatgc aaaa cgaactatt ataaagtgc gggcgtggaa aagaacgctt ccgagagtat 180
gtggtttagc gttcattctc caagtttctt tgactttgn ttaggagaaa ttaagcgcgc 240
gtaccatcaa ctagcaagga agtatacacc ggacaagaac ggcggtgaca agaaggcgga 300
actgaaattt cgagaaatag ctgaagcata tgaagtccta tcagacccac aaaaaagaga 360
aacgtacgac ttgtatggc 379

<210> 3271
<211> 328
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H1

<400> 3271

agcccacgcg tccgttttc gtcagagatg gacgcccgtt ccacaaagga gaaaagaacg 60
tgcggtatac atataaagtg ggagcaagtg tttgaccagg ggaccatgaa aattgacgga 120
aaattcgcca acgtttggtt ggaaggttt cccaatctct tcgctgagtg ttgcagaatt 180
gaagttcgg agctccttgg agaaagagtc aaggtcgaa acgaagaatt ttttacatgg 240
gccgaatcac tgagggccgc ctcttcaatt ttgtatccca agaattttgc tgaagacttt 300
cctttgaagc gttccggcaa tgaaattt 328

<210> 3272
<211> 349
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H11

<400> 3272

agacagaagt tttgggagaa aggtattatg gaaagggtgt aaaaagctcaa gatattagaa 60
caaacgaaat ttttgcactg aaaaagaccc ttttggtaaa cgaagacgaa cgctcccc 120
caactactct gagagaagtt tctatcttaa gagcactttc agattgtccc taaaatcgta 180
aaactatctg acgttcttca cactgcatcc agaaatggta aacctgtatt gtacttggta 240
cttgaatact tgggacacga tctcaaggcac tatatgattt cgaagaacgg cagaggagta 300
tgactcgata agaaacaagc tctggtgtgt ttgctgaaaa taaattttc 349

<210> 3273
<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H12

<400> 3273

gaccacgcgt acggacgaag aggatgaaga cgaagacgaa gacgagcagg atgaagatga 60
ggaggaggaa gacgatgagg aagaagaaga tttacccag tctaagagaa agcgatctaa 120
agactcaaaa aaggaagtgt ccaaagcatc agcaaaaggt catggaggcg gaggtcttcg 180
tgctgcagcc aacaaaagac gtcgttctgg tgaagagtgc agtgtatgtatgtatgtatgt 240
aatgagcgaa tccttgaag acactcgact gtctgattaa agggcacacc gcaatcttac 300
aaaagttgtg taaggaaaaa gagcagtgcg gccaatatga atttgtttc agcttcttt 360
atatataaaa gcattggctc gca 383

<210> 3274
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H2

<400> 3274

agcccacgcg tccgctagtc tccccggata gttgtgaata ttccattgga ctggcatttt 60
tccgtttga agcttgattt agttgcgtcg ctttggttgc cactttgttag taaataaaga 120
aaagactcag gagatatctt tgataaaagta tggggAACAG ttcctcttct agtgcgtggg 180

accttgcata gaatggcaca ctgggaccat attacatgaa ccacagtgtt cccaggagtg 240
accgtttgct ctatatgacg aatatgtttt cgcgctttc aagtaataga agaccgcga 300
acagcagggc cagaaggcaga catagtactg aagaaccagg gataattcca actcaatttt 360
atctggatga gagcacgttt ctaaacttga tacagaatag aatagttgc 409

<210> 3275
<211> 348
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H4

<400> 3275

cggctcgccc cacgcgtcag cccacgcgtc cgaaaacaaa cctcccaaag tcagagaaac 60
cagtagtac gcatgttgcatttgaagcc ttgaaagaga gaagacgacg atgatccaac 120
tttatcagaa ataggtcaaa agaatttgca gcagcagcaa cagaatgctg taaataat 180
gaataataga aaggataaca agaacaagac agtagatatg accaaagagt tttttaggga 240
gcctccaaga cgttggaaagag gagaaatag tcgcgttatt gggggaaata ggagaagagg 300
aagaggaaaa accggtcctc caaatacttc caataataac tatcgacg 348

<210> 3276
<211> 139
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H6

<400> 3276

atattctatt ggactggcat ttttctgttt tgaagcttga ttttaattgcg tcgctttgtc 60
tcgcactttg tagtagatac cgaggcgagc cacgagtata tctttgagaa agtatggga 120
acagttcctc ttctactgc 139

<210> 3277
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-064-Q1-E1-H9

<400> 3277

gacccacgcg taagaaaaaa tgttcgtgtc ttactccgta cctgcaagaa acttaccggc 60
tttggcacgt aactttcca atgtctgtct ctcgaggagt ggtctgagag ggggatgtt 120
acgaaatgtg aaagtttca accacaaacg acctgcaagg ttgttatcta cgaaaatgag 180
aggaggcgac catgaaagga gagaacttag tcgtcctatg cgtacgctt atttaccgct 240
ttcgacgaac ttttagctt tgccgaggat ccctggtcca tgttcgctc tccatggagt 300
ctgtcgcccga aagtatggc agtagacacg tggatgcctc gtgttactt ggtggagaag 360
gaagatggct tttatgcata cgtggaacta ccaggact 398

<210> 3278

<211> 269

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A1

<400> 3278

gcgtccgccc acgcgtccgc ccacgcgtcc gcgaagaaag aaacggatga cgtggacagc 60
gatagtgaca tagactcgga gtggagtgac ttggaagata atgagaccag ttgtcccgag 120
caagttggtg cggttgctgg ttcttcgtc gtaaaagcg gcattttgt gtagagagt 180
tgtacagagg tttcatacca gccgtgttca attgtggtgt gttggtgtac ataaccatct 240
acgttttggg gctgtgttgg gcctacttt 269

<210> 3279

<211> 378

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A10

<400> 3279

agcccaagcg tccgcggacg cgtgggcaca acttggggcg atgacaacaa cgagcaacaa 60
cgctttgtca tcttcttctt cctccaaaga aacgcataatc cttgtagaaa caaatccttc 120
tcaaacagag tggagaatat ggaaagctca aaagaaaactc ctagtagcct ccattcttg 180
tgcgttgggg atgtttgctg aaatattggg aggatacttgc cccgggttctt tagctattat 240

gacggatgct gcacattac tttccgactt tgcaagttt gttatatctc tggttgcctt 300
acaccttgcg aaacgtcctg gaagtactac tatgagctt ggtagtc gagctgaagt 360
tattggtgca tttgtgag 378

<210> 3280
<211> 313
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A11

<400> 3280

gcacgcgtca gccaaagcgt ccgcggacgc gtgggttgg ttgtttctt ggttagcagg 60
gtacattcaa catcatcaa tgccaaaggg aggaaagaaa gattttcaa agaaagaagc 120
cacaagtaaa cctgcagcag cagatgctac aaagacgaca gaaaagtctg gtccggaagc 180
caagttgaag ggaactggtg caaagaaaaca ataaaaagt gactatgcat gttcctgtta 240
tgtttgtga gttctgtttg atagttcca gctattctt tggttagtcaa taaagagaaa 300
atttttata ttt 313

<210> 3281
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A12

<400> 3281

agcggacgacg tggcgacg cgtggcgac aaagtaattc tgagatgaat gatgatgttt 60
accattttaa tgaagaagaa gaagatgaac aagctgaaag agctagaagt agtcttcgac 120
gttcttctca acctattgac gattctgaca attttaactc gtcgaaagat attattccag 180
aagatgatcc acgtatgaca gatgaaattt gtgaagaaag ggatcgaatg tttgatgatg 240
ccgacaaaaga aaatactctt ctttctaattt acatgatgaa tcttgcataag gacgcaattt 300
acaaggcaac ttccagaaaag atgagtgaaac aatgttccct tcgagaagtt atgaatgtgt 360
tggacaaaaca 370

<210> 3282

<211> 111
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A3

<400> 3282

ctcagtcttc cgttgttaac acagagccac ggtgatgtca aggggacaaa agacagtctc 60
tcaaaggacg atcatctacg agaaacccga cttactccaa catcgatcat t 111

<210> 3283
<211> 324
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A4

<400> 3283

agcccacgcg tccgtttttt ctcttacaaa tgtggaggag gatgacgact gtgagcactc 60
gtgtcatcaa gtacaactgg aaagccctgt cttgtattgg aaagcagcaa caacaaccaa 120
cacaaggcctt ttcttagtgtg caaaaatttc aggaagagt gttaaagttt ctagtatgtc 180
ctgtttccaa acaaactttg tactatgact cggaacgcga tgaattattc aaccaatcga 240
taagatatacc agtaagtaca agtcatataa aatgctttat tttctatcat tgaaaaacaa 300
gtatctccctc ctgtaaagcaa acaa 324

<210> 3284
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-A6

<400> 3284

gctaagaatc ttgaagaatg gaacgaaata aaaatcatc agactcgagt tttcaccatg 60
aaagaacaga aacaactgaa gagtcgacgt cagtcggac ggaacctgt atggagagt 120
tgcagcaact tcttcagtg acacttgaaa gaagccattt ggacataagg aagcttcaac 180
aagcagcgaa cgatttcgt ttatgcgaa agacgtttaa aatatgtgat gtgaagttgg 240
aacaaagttt tctaaaaag tcaagtgatt agacaccctc atggtttcc attgaaataa 300

ctgggtgctc ttccttgggg caacctattt attacgaaaaa tttcgac 360
aatatgaggg ttccttctgg atatggtag tttcattga nagtttggtt ggggcc 417

<210> 3285
<211> 213
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A7

<400> 3285

ataaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaa aaagaaaaaa aaaaggaaga aaaacaaaaa 60
agataaaaaga ttaaataaac gtgaaagcac agctaaaaac tcggggaggg tgcccttgaa 120
ggttcaattc attggtccgt cgcttacaa ggtcgccct gttcaaaggc ggccgttact 180
tacccacat ggcggggcgt ttacccccc ttc 213

<210> 3286
<211> 391
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-A9

<400> 3286

agcactcatt tgtgtgcagt tcgaagtgtg gcaaatgagc tctccaaga cagacgttaa 60
taagagcagt gacgaaggag tgaatttggg tccacttgca gtaacaagtg gccacgaaac 120
gagagattt aagggacta cgtctgcaag ggcccgaaga atgagtatgg aagagagaaa 180
tcttgttctt ttaaagagga agctaagaaa cagagcgtct gctgttcgtt ccagaaaacg 240
ccgcttgaa ataattgaga cttgtacaa tcaagtgatc gaactatctc acttggcttc 300
acgactggag gagcgacttc gagtgtaga gagacatgga cttaactt tgcaagacag 360
ttgcgtgaac ctatcgaata agaaaacctt a 391

<210> 3287
<211> 386
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-B1

<400> 3287

atcaaactac attgcgatgt gggatgcgtt ttcaataaat gttgaggaat tactatccga 60
aatttggtag cttccttcaa tatatcatca caccctattc ctgcacaact ccaacataag 120
cttctacaag tcacaaaaag gttcttcca cgggtgcaga agaattcggc ttctgtaagt 180
gcaagggtgc ttatttccat ggatataaaa gataaataac ttatgcaa at aacgccctac 240
tatttacaa gactgaaaat cgtggtagcg ggtatcgact gactaaggtt tgatacacga 300
ctattggct tgcgtaacgt ttgctgagct tcacaaaaat cgactagttc catactactg 360
tctggtactt ttgtgcttct ccaaac 386

<210> 3288

<211> 400

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-B11

<400> 3288

acgcgtcagc ccaagcgtcc gcccacgcgt ccgcagaaga gaagcttcc gaggagaatt 60
ttgtctgcaa tagtatgaag caagtcgtga ctgacacaat agacttgcta gaaagagtag 120
agcagagatg catagaatgg gacaaaaaga cagaaaagct ttcaggagga gtgaaacaag 180
aatatttgtc gttttggcg cctttgtgt atcagcgttt tctcggtgt ttgttactt 240
ggaacgctct gttgattgaa tggtttcatt ctaatttctt tgtatcgaa accattcgag 300
ggtttggta actgactgtt ggtgcccctg ttttagctct tgccgctagt cttcgttt 360
cgcattatta tcgacgcana agtatccga ttttgcaaa 400

<210> 3289

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-065-Q1-E1-B4

<400> 3289

gtggaaagat tctgtcggt atccaatgtg gagagcaagg gctgtgtgt ttattccaga 60

aaacattccc agactctgaa attcgcat ttccaaagtaa agccctgtcc atgactgcgg 120
tctttctctt tctctcttt tcgagagatg ttgcagaaaat actccaactg aaatgtttc 180
aaaggcggtg catgtttca ccaacgtttt cccatttgg a gttccaagc ccgcatttc 240
ttctacgcac cctttctta cccattttg tgtctttac tcaccaaggc atggcgggtt 300
tagaagactt ttatgaccgg acttgtggtg cagaatatca naatatagtg ccagaaaaaa 360
aggaacctgt agaaaacaaa ccagattcta ctcgaaaa 397

<210> 3290
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-B6

<400> 3290

ccccacgcgtc cgcccacgcg tccggcctgg ttgaagagta ttactcgatt acctattctt 60
gtgaaaggag ttgttactag agcggatgca gaaattgcag ttcgtaatgg agtagctgg 120
attattgtga gcaatcatgg agcaagacag ttggatactt ctctgccac tattgattgt 180
ttggaagaag tagttgcagg tgcacaaggc aaagttcctg tgttttaga ctctggagta 240
cgtcgtggta cagatatagt gaaaagtttgcacttggcgtc acaaaattgg 300
cgtgggtct tgggggtttt agcagttggcgttggatct agtttgaag 360
ttgcttcgtg atgagtctga gttggactg ggaacttgg 401

<210> 3291
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-B8

<400> 3291

cggacgcgtc cgcccacgcg tccggccacg cgtccgcgg a cgcgtggca ataactgacg 60
aaaagaagaa tggatgtttt gtggagaagg agcgactgac tgctgacgaa agaatattag 120
acattgtgcg tgacttagaa aacattatgg aaagtgttag tcaattgtat ccagaaaaatc 180

ctaagaaaaa tattctcctg gttggcactc caggaacagg aaagacaact cttgcaaaga 240
gaattgctgc tgtcaacttcc ttgacacact tggaagttgg aaagtttgct gaagagcaca 300
actgtttggg ctgttacgac gagcagttag attgcttcga aatagaggag gagaaactta 360
ttccttgct ggtaaacgct ctganacctg gaggcttct tgtggagtat catgga 416

<210> 3292

<211> 190

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C1

<400> 3292

ctgcatcaga caccgagcgg tttgggtgt ttttgtgga gacaacacac ttgacataac 60
actgtataat aatgtatgtg tttgtacgag tcagcgtgtt gataacgatc aactattctt 120
tgcataatgtt tcaacatgtg ctgaaaatg ccgtaattaa gatcacccga tcaacgaacc 180
cccctatggc 190

<210> 3293

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C10

<400> 3293

ggtcaggaat aacgggtcg ccacgcgtca gcggacgcgt gggcgagaac gatgcttatac 60
ttatggtaga tatggcacat atttcagggtt tagttgcagc aaaacaagtt ttatgccgt 120
tttcttatgc ggatgtggtt acaacgacaa cacataagag ttacgtgga ccaagagcag 180
gtatgatatt ctatcgacgt caatgtctt cacaagttag acgaggagaa gattggagt 240
cgttgattaa ttctgcagta cttcctgctt tacaaggagg acctcataat catcagattg 300
cagcaacttgc agttcaactt gcacaagtaa atacacctga attcagagaa tatgcgaaac 360
agatcatatt aaatgccaca gctttggcga agtacttgag ttcgttgggt 410

<210> 3294

<211> 380

<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-C11
<400> 3294

agccccacgcg tccgagcata tgaactgggt tgcaatttat ttgataacgc tgaaacttat 60
gcagctggag cagcagagtc tatcatgggg gaggctttc atcgaggtgt aaaggaggc 120
gtatggacaa gagaagactt ggtgttgact acgaaaatat tcttcggcgg aagaggttca 180
cgggactgca agcctcggt aagcgtatgc agttggatca tgttagatgtt gtgtttgcc 240
atcgcccaga tccacttacg cccatcgaag aaacagttcg tgcaatgaat cacgttattg 300
accgagggta tgcttttac tggggacta gtgagtggtc tgcacaagaa attacagaag 360
cttgcgagt tgccgatgtc 380

<210> 3295
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C6
<400> 3295

agtttggacg aattattgcg caatcgatac gctccaaatg tcacgagggt ttgggctgta 60
ctcaattatg acgaggtcca ggtaactcac tcatctgacg gagtccttag agatatcata 120
gaaagtgaaa tagtacgtat tccagccgct caaaggcctg cagatcttt cttttgaga 180
gaaaattcgt tggcaagtt ttggcatcgt gagttgatgt ctcaagttat tcacatgca 240
cagaaacgtc gtcgcctcat catggccgag catacgaaag ataccgcgaa acaaccattt 300
tgctcggtta tggtagtagtt ttgctttgtt ttgtgttaga gttagttgtt tttcagcgg 360
aagggcacgt ttcttctca ttatggacat gagaacatag atgtttgt 409

<210> 3296
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-C8
<400> 3296

cccacgcgtc cgcccacgca tccgagtaag tgcgcttggc agcaaactaa aagatggcaa 60
gaagaatcat cggagcttat atgtctgacg ctactgtacg gtctctattt agcgtaaaaa 120
tgttggttcta ctttacaata cttgcgttct ctatcactat tgtgggtctt atgggttaaga 180
gttccgacgg tatttgggtt cacagtgttc cagcgaaaga cgaatattgt gcataacaagt 240
cttcccttca agtaaaccac cacggcatag cttcctattt caagtatatac atggctgttag 300
cagctattgg tttggttatc agcttcttcg agttttggta tgcattcctc ggaattttct 360
tcaagtggca acaaaaagttt tggtatattt aatctgctat caacgtgttt t 411

<210> 3297

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D12

<400> 3297

agcggacgcg tgggtctcga agcaaaaagc cttaattgc ttctcttttc tcgaggtaa 60
tatacagttt tttagttaat ttaccgttgt gtcttatgtat ttccacatta cgctgttagtt 120
ttattaaagt tattgtcaag agattatgaa gctcaatgac gaaaaaaaaa atagttgtt 180
gacacgtttt ctccgagcga attttttttt gagtgaggat tacaagttga agtagttgtg 240
gttgcgttcaa gctttgcgc gtttcttggt atagaaaaac cgtccattct tatcttgg 300
cctagaaaaa ggttcacagc gttgtgagta tcattttcaa gcgacgcatt gttgtttgg 360
aaccaaaaagt tattt 375

<210> 3298

<211> 289

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D5

<400> 3298

acgcaacgcg tccgcccacg cgtccgatta cgtggacgtg gcagcaacat attttacggc 60
aatatgaatc aactaagcca agtggtctca cacgttagta ccgtgcagaa gaaacccaag 120
aaatatcata caacacatgg atgatcttc caacctgacg aaaatggtgg atgtcatagc 180

taatgtatgg ccaatcagct atttcgagtt acacctaagt tctggacgca tcaatgacaa 240
tgctcaatgt cgcatattag attcctggaa ttaggcatac cttctaatt 289

<210> 3299
<211> 383
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-D6
<400> 3299

aggggcaacc aactaccacc aaaagtagca actgcaagga agaacagagt gtcctaaaga 60
atagcaagtt gtgatgagga gaattggtag caaactcttg tcttattccg gcaatgaagt 120
aaaacttcgg gatgttgttt ctctctaag ggagacgagt aaagcgacgg ggtcttccat 180
ccggagttgg ctccgtgata tcaaccagtg gtatgaagac acttactata aaaaggaaaa 240
ggtgatcct ttggatcatt atatgttact ttgttttggaa gtggatata ccatcaatta 300
ctccccatatac aaacataaaag tggagcataa gaatgacgat atcgaaagct tgtaaacgtc 360
acctttgttg tggatgttggat 383

<210> 3300
<211> 394
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-065-Q1-E1-D7
<400> 3300

agcatgttcc ct当地ttagctg agtgtactgc attccataga gcaactccac tttgcaaatg 60
cttcgagtcg tc当地tcccg tttcagactt tgcatcgac ccgtccgtt gcaatcttc 120
gc当地accatc gataatatac aatccgggt tc当地tctct aactttcca acttctttc 180
caccttcttc tt当地atcca agttactcac tt当地cggtata aggagactct aaaaaacgag 240
attagatatg aacgacgaac gataaccatc acttacgaca tt当地cttcc tt当地cttcc 300
aaattccttg atttcttctt ggaaaatctc gttttgtct ttagtcactt tc当地tactat 360
ttcctcaggg tc当地acaaact tt当地gtaaaac taag 394

<210> 3301

<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-D8

<400> 3301

gaaagtactt tggtaagaga ttgcaatagg tcttgcgacc agataagtaa gcgtgtgtc 60
atgagtgaaa agacatccga gcacgaagag aatgttagtta aataggatag gactcgaaat 120
cacagtgtaa cgagagtann aggacgcaga gatctagaaa gagagaatgc ctgaggtgt 180
agtactcgag aacaagggtcc aggaaagtag aaggtaacaa tgagggaaag tttacaatat 240
aaaggatat atggaacaga gtgtaaggct gcgtcatact agaaatccga taggagtaga 300
gaatgagaga aagttgtggg aaaagaacat aacagcagta ctgaggaccg actcaggtac 360
t 361

<210> 3302
<211> 197
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-D9

<400> 3302

cacgcgtcag cccacgcgtc cgccggacgcg tgggctcatg ggaagggttc atggcacctt 60
caatttggtg gtttggaaat aactacgaaa tagtattcag cgcaagttt tacgatacaa 120
gaataaacat tatgtgttat actaaaaaaa aaaaaaaaaa aaaaaaaagaa aaaaaaaaaa 180
tgacgataac acaaaaaa 197

<210> 3303
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-E12

<400> 3303

aggtaaaca tgtggaaaag agcaactgtc ccaacactag gaagaatata ttaccctaag 60

cggttggtag aaactttgc caagaaagaa acaaccaagt tgccagttgt tcacaacttt 120
gtgggaggaa aatttgtggc aagtcagggc cctattagcc agacagtgac caatcctgcc 180
actggagaaa gccttcaaag cgtaccctcc actaccaaac aagaagtgga ccatgttagtg 240
caagtagccc aagaagcgtt tgaaagctgg tccaaaatgc ctatggaaag gcgttgaat 300
tacattttc agttgcgata gggagtcang aaaagatccg cgaaaattgc ccaag 355

<210> 3304

<211> 419

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-E6

<400> 3304

ggagaaaaag acgaagactg ttgggtggctc gatgagtaca acatttcttt gtccattcct 60
acccaaactc aactattgga aaccactttg taataaaaagt aagtatggga gaatgacagt 120
ggacaaggaa aggaaagaac ctaccccttc ctacccagca gagtggaaac agcatcgtat 180
cgtccagtc aacttgtttc gtcaacaagt agaaacctt ttgcgtccta ttccaaagga 240
tgtgcaacaa agaatggaaac gaattgcgga agccttgtta ttacaacctc aagacacgtt 300
gatagatgtg gttgtggaa caggagccat ggtaccttt attcacaagt atattcctt 360
atctcacatt tgggtgtgtg actgcagtga agccatgtca gaacaagcca agaaaaggt 419

<210> 3305

<211> 416

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-E7

<400> 3305

acggatggaa actctggAAC agactcctAG tcttcaAGCA gcaaACAGGA tcaACCAACT 60
gctagAAAact caaacAAAAAA cgtAGAAAAC acaAAAGAAA aAGATAcAAAt atGAAGTTG 120
gaacGGTgCT gagTggACCA acaACAGCAA tctAGAAAAT atAGCATGCG tcttGACAGA 180
gtgtgAAact ctTTGAAAG atATGCAAGC gttcGTcGA tgtATTtAtt cacaAAATTCA 240
aaACCACCAg acggAAACAT gttcATTCC tacACAGTTT ttcGAAGCTT ggtctGCTT 300

gatgaaggaa ttggaggaat gtcatctgcc gccttgctc gaacatttg tgacgtatga 360
catgtccaaa caaccattcg atgaaactct acagagactc gaacgttgc tatcct 416

<210> 3306
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F1

<400> 3306

agaattgctt cagcttgaag atgaactcca acactacccc taatccaatg gaaatagagt 60
cactagagac taaccaagaa agagaaacca acgccccaga agtatggaa gaagaagaag 120
aggatgagggc aaccaagaaa gatgatggtt cgacaagggtt tctcaaggta tttgcggtca 180
tagctggttg gggctccact ttcttcggag tagatacttc agttattgga ggtgcagctc 240
tgtatgttca acctgacttg agcatttctc ctggcagtg gtcatggatt acttctgttc 300
cactttggc agcatgcttt ggtaggaa cctccatacc cctttgttac cacattggga 360
gaaagtatgt tgtcctttta gctgctgttc tatatcgggc tggtgcta 408

<210> 3307
<211> 205
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F10

<400> 3307

catcccgctg ggacatttg cgttttctag cgacgctggc tatctattct tcgggcaca 60
ctacattcac caagtacctt ccatagacca tctcaactggg gtgggtttac tggtacattg 120
tgtacttgtg ggttagttgtg tgcctttgt ggttgcacc ctatggta ctccacgcac 180
ggtcattcac attcgtcaac atgtg 205

<210> 3308
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F3

<400> 3308

agcaagcgta gagcagaaga actgggtgta aaggtcgagt agtagagtaa gtgtaaaagg 60
gaaaggaaag gagagaaaga ggaaaggat gaaatgcaga gatctctaga gaaaggcaag 120
aaagaaaaga aaggaagaca cagtaaatga ggcgagaaag cataggaagt gaaacggatt 180
aggaacccgt gtagtctatg cagtaaaaaga aagaatgagt aagaaaaaag ggagtcattc 240
caccagggga gtaaaggcgc aagaaagaaa cccaaagcaa ttgacggaa tcggaaaaag 300
gggtggatca cgtaaattaa tccgatataa accgagaacc ttacctctcc aagaaggtgt 360
tgcacggctg tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa gccaa 415

<210> 3309
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-F7

<400> 3309

aggtccaaac aagagaagtc agcagtgggg aaaattgggc aatgtacaag gaagtatgac 60
ccagtaatga ngagtggagt aaacagaaaa ggaagtaaaa ggagggatg aanggaagtt 120
atggcaaaaa cacgtgccag cagcagcggt aaaacgtgtg tagcaagcgt agagcagaag 180
aactgggtgt aaaggtcgag tagtagagta agtgtaaaag ggaaaggaaa ggagagaaaag 240
aggaaagggta gaaatgcag agatctctag agaaaggcaa gaaagaaaaag aaaggaagac 300
acagtaaatg aggcgagaaa gcatangaag tgaaacggat taagaacccg ttagtctat 360
gcagtaaaaag aaagaatgag taagaaaaaa gggagtcatt ccacca 406

<210> 3310
<211> 336
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-F8

<400> 3310

cttagaagca gcaaaccaga gaggaaagcg ttaaagcatg aaagaaaaaga aatccgaaaa 60
agaagagaaaa aaggtaaagaa agaggaccga atcaggtaa gagtagagg agcaagaaga 120

gaagagagaa tgctgggtgg agtagcgaaa caagagaagg gaagtaaaag gtaagaaaga 180
ggaaaggttt acgagagaag gaagttagaaa gaagagagtg taaggcggcg tcataataga 240
aatccgaaag gagtagaaga aaagagagag aagaaagaaa agaagagaaa agccgtactg 300
aagaccgaca caggtactcg aggagaaagg agaccc 336

<210> 3311
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-G12

<400> 3311

gggtcggcca cgcgtcagac cattgtcata tatgaatgat caaagttct taactggac 60
acttccaaaa gatattcata gtattgccta ttctcgtctc atttacagc gcttggaaagc 120
gaaactggtt gctaatttgg caaaggaaat cggaaaagcgt agtaaacaag gcaaatcctc 180
gtttgaagtt tggAACGAAT gtttagactt ggctgccgaa gttggaaagag cacatacgga 240
gttgctata gcagaacttt cggAACAGTT gatacaacga gctagtgcta ccgattcttc 300
tgtcgaaac atttgaaac agtgtcaaac gctgtttctt ttacatttga ttgacaaaca 360
gtcgattttc ttgcgttata attgcttata tcct 394

<210> 3312
<211> 79
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-G2

<400> 3312

gtgggtttgg tagtgctcca aggagtcaag taactcgtgt ccaagttacc aatttggcac 60
tcgggtttac caggaagga 79

<210> 3313
<211> 375
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-G8

<400> 3313

agggctcaag gggaaagcgt ctcgtggaa caactgttgt aacacttcac cgagcagttt 60
tcgttacgtt ctctgtcgta tagcatgctt tttggagctg taatataacc aaagaacatg 120
gcttgtgttag cagacgagcc ggcaggttgg acaccgagca ccgaagcagc gcaaactcca 180
gtggacaacg actgtcttgc cccttcttcc cacccctctt caccccttgc gcaagtttg 240
actataagat tcctactatt ggacagtaac gactttcgta ttgccttccc accggaaacc 300
actatattgc agttgaaaca aagagttctg gaagaccaac cacaagcttt tttgaacttt 360
ttagaacaca acaga 375

<210> 3314
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-G9

<400> 3314

agcccaagcg tccgtgacga cgcaatacaa atcttatcaag aacagccctt tgaaaagact 60
gaaacacttg aaagcacaaa agaacaattt ctccgtctc gagatatacg gtgttagttagt 120
tcagaagatt cttagccgttc tgaacctttt accttggtag ctactatcct caacgcacat 180
gaaggtgagg ttaattgtgt gaaatggaat ccacaggatg gttacgtctt cgcttcttgc 240
ggcgatgacg gtgtataaaa tatttggcag ataagtataa actaattctg actttcggac 300
aagacgcgtt gttcaactagc cggtgtcggtt gttctccata ttgttattta ctgttcgtgg 360
g 361

<210> 3315
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H10

<400> 3315

cgcgtcagcc caagcgtccg aaaggagacc caaattaagg tgagagaatg gacgataagg 60
aactaggcaa aaggatatgg tatctgcggta agaacatatg aaagaagcag caccgactgt 120

ttagcaaaaa cacagcactc tgcagaaaag agaaaatgt aagtatacg tgtgcggcct 180
gccaaatagt agagaaaaaa tcgatgaaag taaaagcgag taaaagatga ggtatacgaga 240
atggcggtcc taactgtaa gatccaaagg tagcgaagta aatagacgtt tgaaaggcgt 300
ccagtatgaa aggagaaacg agtgttagcac tgtcttagtcg tccaaactcag cgaaacagca 360
ataactgtga aaatgc 376

<210> 3316
<211> 182
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-H11

<400> 3316
taaaagcaac aacaaccgca atgcttatcc ttgtgattta ggaaaacggt ttccctacta 60
gggcacgaag ttgcatanga atatgtcgag taacanagaa gaaataaata aactaagtgt 120
atttgttttc gaagaagaag cgtattctgt ctctcttgc gcttcttgc aaggaccaa 180
gt 182

<210> 3317
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H12

<400> 3317
cgcttcagca ataattgtcg ttagtggc aaagccaaa gcagttgagc acagcaatat 60
cgatatgtca agtggctgga ataactacag tggAACGGAA ggtaatggga atgctggc 120
tggcaaggg aagaacaagg ataagaagac tagtgagaa cttgcaaaag atagttaaa 180
gggtttggga atggcagcct tgcagcggg taagctggtt tatcgccgtg gcaagtggc 240
tgtggataag gtggaaaggcg ccattgacga ccacaagtca taaggaagta agagtggcgg 300
tggtgaaaat tcacgttatt ctcgttggaa cgtataaacg tggatagaaa cagaacgaga 360
cggtttta tagttgtgt gctggat 387

<210> 3318
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-065-Q1-E1-H3

<400> 3318

ggaagttagaa agaagagagt gtaaggcggc gtcataatag aaatccgaaa ggagttagaaag 60
aaaagagaga gaagaaagaa aagaagagaa aagccgtact gaagaccgac acaggtactc 120
gaggagaaag gagacccaaa ttaaggtgag agaatggacg ataaggaaact aggcaaaagg 180
atatggtatac tgcggtagaa catatgaaag aagcagcacc gactgttag caaaaacaca 240
gcactctgca gaaaagagaa aatgtaaagt atagagtgtg cggcctgcca aatagttagag 300
aagaaatcga tganagtgaa agcaagtaaa agatgaggta tagagaatgg cggtccaaac 360
tgtaaggatc 370

<210> 3319
<211> 329
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H5

<400> 3319

gaatttagaga atggagagtt gctatggcat tgtgcatgg gttgaataca aactgtcaga 60
ttcctacgaa attgccagct gtttatcac aggaactttc tggccaggt caggagtctt 120
ctgatatgaa tgctctcaga gaagctgaaa tccctgaagg aaactctatt catttaatg 180
accgtctgtc cgacaagaat tgcaacgtca atgaatctgt agagactgta cacaaactgc 240
cacaacactt gagaaatgat caatacgaga aggcttggga tactgaggct catactataac 300
aaccaaagca ttggacttgc agcctttc 329

<210> 3320
<211> 305
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H8

<400> 3320

tgttgggccc tgtggtggtg atgcctgga ttgagctacg tagtggaaac tccgctgtct 60
tgaaaagacat aactgcaagt attgaaaagc ctgacataca atggataact acgacgaatc 120
tcagtaactg tctgaattct gcagaaggaa atgttacggt tgacttgtcg cagcagtgt 180
gcttgaaga tatattttca ttgaagcttc tcgagaataa cttaagttg gcgtgtttt 240
atgatgcctt gtttttagtt ttaccaggct ttcctttgt tattactggt aatcgatat 300
tctgt 305

<210> 3321

<211> 404

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-065-Q1-E1-H9

<400> 3321

agcttacaga catgatagcc gatgccttc acattcaagg tctccacctc cccgaagaag 60
ccaccggctcg aggagcagat ctcctccccg aagaagattt cgacgatctc cttagatag 120
tccaaggaga cgagatgact attctcgag tagtagtaga agtccgataa ggaaggaaga 180
aaatagaaat aggaatctt cccccagcgc ggagaacaac catcgatgt agggcagtta 240
tgaagaccgc cgtaggtctc gctcaaggag ctttagagt actgagagga ggcgaggtga 300
gaattccaa aacgagtcac ctagaggtga agatgaatac taaagttca aggaagtgag 360
cgacctgatg ttccctgaaa cgttccctt cttccctggg gtgg 404

<210> 3322

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations

<223> Clone ID: LIB190-066-Q1-E1-A1

<400> 3322

aggcaatttc cagagttgat gtcggaggat aaccgtgtct ttgttgggtt tctccatgg 60
tctataagtg aggacgactt gaaacaagta tttccaagt acggagaagt cgtagatgcg 120

agggtggta tggacagaga aactggacgc tctcgaggtt tcggtttgt ttcatacgtc 180
gaaagctcgta cagtggacga atgtatagct gccttagacg gtcaggacct acaaggtaga 240
accattcgta tcaacaaggc catgactcgta gaacaacgag atgaagagtt tgcttccgga 300
agaggaggtg gacgaggtcg ttatggaggt ggtttcgtt ctggtggtgg ctttgagcgt 360
anggactacg ataaccgcag gaactatgac cg 392

<210> 3323
<211> 245
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-A2

<400> 3323

agcccaggca tcaggtgctc gtaacgctgc tcgagtgatt aggaagggtg gcatccaaaa 60
tggtaaccctc aagggatacg tgttncggg aaaagtcaag gtttcgggttc aacagaacct 120
aagggaagat aaggtccccca cggcttggca gttcgcccat ttttagtagta agtttaatgg 180
gtttaacacg tccagtgccca attccggccc taaacactgc tagatgaagg aaatgctaac 240
ctatt 245

<210> 3324
<211> 373
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A5

<400> 3324

agcccacgcg tccgattcgc ttgtggcgtg tgaagtttg gttaccttga aagaatgcag 60
atatttgtaa agacacttac tggcaagact attactcttgc aattggagcc ttcatgatact 120
attgagaatg tcaagtccaa gatacaagac aaggaaggaa ttccctccaga ccagcaacgt 180
ttgatatttgc ctggaaagca acttgaggat ggtcgtaactc tttcagacta taatattcaa 240
aaggagtcta ctottcaattt ggtattgcgt ttgaggggtg gaatgcagat atttgtaaag 300
acacttactg gcaagactat tactttgaa gtggagcctt cagatactat tgagaatgtc 360
aagtccaaga tac 373

<210> 3325
<211> 385
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A6

<400> 3325

agccccacgctccggccacg cgtccgtgca aagccaaact atttggaacg tttatttagtg 60
ctcggttactc aagttggatt ttgcgccttt tatactacta tttatctatt gtcaccta 120
actgcacatc gtatcggttgg ttacttagaa gaagaggcag ttgtatcata taccgaatat 180
ttaaaaggaa tcgatagtgg tttgcattgca aatattccag caccgcaaata tgcgattgat 240
tattggcaac tagatagcaa tgctcgttt agagacgttg tattggcagt gagagcagat 300
gaggccaaatc atcgagacgt gaatcacctc aaagccaaatc ttttatatac aaagcgtgga 360
aaggaaactg cacctttgtc cgtat 385

<210> 3326
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A7

<400> 3326

agggggaggg aggaggatgc aagggtggaa gaaaccagtc ataaccgatg ctggaaaa 60
cagagtaact tatgtgttga aaagatattt caacgcacct actactggag aagagttgcc 120
acattcggttgg ggtggcatg tgaccgatgc agatacggtt ttacggcaca aagggtgggg 180
agaagaaaaca gcgtatccc tgaaagaaga cgctcgcaag tttgaaaagt tggcaaaaca 240
gttgaaaagt gcgttgaatt cagggaaact aatgacaaaa gaacaactca aagtggccat 300
ggaacagaga ggaataacaag tatctgaaga gggtttagag gacttgcttc gtctaaaaga 360
gcacattcga ttctcgatg caagtagcag tggtagctaa gaaca 405

<210> 3327
<211> 342
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-A9
<400> 3327

cgggtcgacc caaacgtacg gaaaactgca acaacgtcat tcctggcgac aacaaacaga 60
caaggtcaca agcaatcgga acccgcaatc ttcgaagtag aacaattccc aagcccaatt 120
aaagttagttg ttttatattt cgctgatatg ctttgttgc tcaaaacata ttgaaagctt 180
ttgaatgtgt taaagagact gatTTTCTT taaaaaaaaaaaaaaaagac aaacaaaaat 240
aaaaaaaaat agcaaaaaaaaaaaaaaaaacgaaaaaaag aaaggaaacg aaaaagaaca 300
gaaagaactc aacactagac atgaaataaa aaaaaagggg gg 342

<210> 3328
<211> 441
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-B1

<400> 3328

cacgcgtcag ctgacacctca ggaagtcttc tagtgcaaac cttgtatcct ccccacgaag 60
aagcaccacc acaatgttcc tcctcctcat ctatgtatggaaatgagagt agctacgacc 120
agttctccag aatcggtttt gggtgaaaag tcggaagagt cgggtggat tgaaattatt 180
ggagcagggaa gaataggcca agtacatgca gaaaacctgg cttccgtat caagaaaggc 240
agattggtgg gagttgcttc aggaaccaaa caattggcag aaagatgttag tttggctact 300
ggatgttaagc cttattatga ctatcattta ttatttaggg atcctatgtt ggtgcagtt 360
tgtattttttt ctggcttcaa tcaacatacc anacagatta tggaagctgc aagagctggc 420
aaacatatct tttgtgaaaa g 441

<210> 3329
<211> 408
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B3

<400> 3329

agaaaatgta caacgattat atagacgcag gtagcaccca cgacgatgaa aagaatacta 60
cttgagaac aacaacttcc caagtatcac ccgaacaaca acaagaagct gcacagttc 120
gacaacaaca attacaacaa caacgaagtt tacaagcggtt gaacgctacg cttggccagt 180
tttggacga acaaatgcga gaggtcagcg tcataccga cttaaaaac catatgctac 240
cttggcaag aatcagaaaag attatgaaat ccgatgaaga cgtgcgcattt atatccgcgg 300
aagctcacgc cttgtttct aaagcttgcg aatgttcat tttggagttt accattcgag 360
cttggcaca aacagaagag tcaaagcgta gaactcttca acgttgtg 408

<210> 3330

<211> 428

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B4

<400> 3330

gaccacgcgt cagcggacgc gtggcggac gcgtgggtttaa taaatattct 60
atttccttta aaagaaaaaa aaaaaaaaaatc aaaaataaca accaaacaac aaaaaaaaaac 120
ggcaaagggtt tcaacaacag caattacaag aagaacgcac attacaatg cgtcgaacgc 180
tacgcttgca cactttgcg acgaacacct gcgagatgtc ctcgtcacca cccacttgaa 240
gaccatatatg ctaccttgg cagaaacac cctgactatg acatccttg accacttgca 300
catgatatcc gctggagcac ccgccttgg ttctaaagcg tcgtcactgt tcactcttgg 360
aattgactat tcgacccttg ggcacaccac agaacactca cagctgtgaa ctcttcaacc 420
tcgtgata 428

<210> 3331

<211> 409

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B7

<400> 3331

agtttaata ttgactcca ccagtcaacg attcggtgtc gctgctgaac acgttatga 60
cgtaaacgag aataccaagt tgcgtttgg tggaaagtt cgtcacggag aatcgacccc 120

ggcaggatat gtcattgccg aatatgactt tacggttcc aaagaagatt ttccgataaa 180
cgttcgtgca cgtgcgatat gtaaaagtaa ccagtgcac ggcgatattc gtgc当地 240
gaagtttcaa gtggacgaag acacttctt attttcttg gccaaagctt gtactcagga 300
actaacaaaa ggaagttata ttattggtaa agctggagtg acacgtgact ttcgttggg 360
tgaagacact ttccgttgg gtgcgggtgtg tgaccaagat ggaaactgt 409

<210> 3332
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-B8
<400> 3332

aggtagaaag aagagagtgt aaggcggcgt cataatagaa atccgaaagg agtagaaagaa 60
aagagagaga agaaagaaaa gaagagaaaa gccgtactga agaccgacac agtactcga 120
ggagaaagga gacccaaatt aaggtgagag aatggacgt aaggaactag gcaaaaggat 180
atggtatctg cggtagaaca tatgaaagaa gcagcacccga ctgttagca aaaacacagc 240
actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg gcctgcaaa tagtagagaa 300
gaaatcgatg aaagtgaaag cgagtaaaag atgaggtata gagaatggcg gtcctaacgg 360
taaggatcca aaggtagcga agtaaataga cgtttg 396

<210> 3333
<211> 420
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C1
<400> 3333

agggcgaata ttcatgcgt agaaaaatg aatgagac gacttgtcaa aaacactgt 60
tatatttggta aataaaacg tgcacaaaaa tagtattcaa gaatatgttgc agtatacaag 120
ttttgcgtat atggacgtat gagcgtatgg acactaaca gttgaagatt gctaccaagt 180
ttgaaatggc actggaagaa actcctttat atatgaatat attatcttca cgatcaacga 240
gaaagcgaaa tcgagagtgc attgaattga gtgagcaca gcagaagctg gtgc当地 300

aagttagtatac tactgcaatt ccagatatac actttacaat gacgcttac agcacggcaa 360
ggtggaaagag aacaacggtg cttggcagta ttgtgcgtcc tatcgatgac ttgtcaaaga 420

<210> 3334
<211> 235
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C3

<400> 3334

cgcgtcagcc caagcgtccg gggattaca agagatacac ttcataagcg tcgccttacg 60
ggaggtaaaa aggctatacg gaggaagaaa cgaaagtata atttggaaag acaacctgca 120
aacacgaagc tgggtccaaa ggcagttacga cctgtgcgag taagaggagg caattacaag 180
tttcgagcac ttcgaatgga ttctggtaac tttcatggg gctccgaggc gccta 235

<210> 3335
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C5

<400> 3335

agaatggttg gtttcgtcgc ttccgtcctt cttttgtat tctcgtgtat tgacacgagaa 60
aaagtcctta agatggaaag agctttgaaa agcagtcac gtcttgtgcc catacggtcca 120
aagcctgttg taccttcaaa agggtctgaa acttttcgt tgcgtatgt tggtgccacg 180
tgggatggtg gttgcacgta ctatataagg ggaggagggt catatattac taatggaga 240
attacagttac cttcaagggc gtctaattccc atgaccaagg acgagttctt cttactgggt 300
acttactcga gagacaagct ttgccgtc tttgatagaa ctctacaaag ttccgaaaca 360
cagtagtgtg ggttactttg gggtgtatcc tcacagttgt tttataaac 409

<210> 3336
<211> 368
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C8

<400> 3336

agggaagtgt tcgtaagcat caagaacttt caaggaaacc aaaactggcc aaccctggta 60
ccaacggcaa ttccctccaac gcatttttg gaacaattag tccttgggt gaatttaatg 120
gcgggtttga taatcaagga ggaattaaaa tactgaacca aaggtgtcaa aagctggatt 180
agttggagca agtgcaacaa agaaagatta atgattggaa agagaaaacta aaagttctc 240
aaggccgtgt cgatgaaaca actggcaaag acaaaaagggt ttgagagcga agaagagtat 300
caaagaaaagt tggagcagct cgaaaaggaa aaacaaaagca tcatcagtga aaatatgaaa 360
gctgaaga 368

<210> 3337

<211> 342

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-C9

<400> 3337

agcttttggc ggtggtaag agacatgtct caaaatttg tacgttgcag caactaaatg 60
catttacttg tcgtttaaac gacagcttc aacagattga ggaacgactc aagatgttgg 120
aagtaaaggc aacaagacta gaggaaacga cgaataaatg ggacaagtgg ctacgaagta 180
ttggaaaatg gagagtgaaa ccacaagaca acaaaaaagt gttgcgaaa aaatagacct 240
ttccaacgt aatggtgtca caagttctta cacacaactt acaagctcaa aaaccaacat 300
gactttatga agcgcttata aaccggaaat ttctgtcttt tc 342

<210> 3338

<211> 423

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D1

<400> 3338

aggtaacaca caatatgatg atgatgatgt gcgtggtaga agagaatcga gttgtat 60
cttggaggct acaaatgaat cctccatgc ttccctattg gaagaagaaa gtggagatat 120
tgatctggaa tcttcattga atcggtttca tatggatatg gagttgagtc aacgtgctcc 180

acctccacca cctacggcac cttctttagg attagaacct ggaacgtccg cacctgcagg 240
ttctggtctt cctgcaagtc cttnntctgt tgcgtggact cgaggctcga ggtcatcgag 300
tgttgcacca ggagaaaatga ggacttccaa gtggctacgt gctagaagag gattgacaag 360
cagtgaaaca agtgatcgaa gtcagatgcg ttcacgagag acttgatgaa gataaagata 420
tct 423

<210> 3339
<211> 311
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D10

<400> 3339

gggtcgaccc aagcctcaag ccaagcctcc ggaacgacac tacaatggtg gtggaaaagt 60
tgtgttaac gcaaccgacc actccggatt tgcagtgggt caagctcggt ttccggatta 120
caacgatgaa atgcaacatc catcgccatc ccaggatggg tcatcggtc aaaacgaaac 180
agagaaaata acgattgtt ggaagcttgg taaaatacaa gaaggattgc atttggctgt 240
ggaacgagta tggtaaacc ataccaagta tgtaaacag tttcaggtgc aggtgggaca 300
gcagaacctt t 311

<210> 3340
<211> 404
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D12

<400> 3340

gtttgttcaa aagcagcatg atgaagagcg ctatgaagtt ctttgtatTTT agcattatTTT 60
tggcaaATGT tggctttact attcaagcag caacggTTT ggagactttg gagtcactga 120
aatatacaga gtatcttgc atggtaaagg ctgcaggcct gcactcgaag ttcaacgact 180
ctgctgttac atggactgtt ttgcagcaa acaatactgg agtcaatgcc accttggcac 240
cagagcactt ggtttctaa tatcacatct aatgcgacgg agagcaaaga cattgtggaa 300
tatactttgt acaaccatac tctttgtca gatgatatta agacaggaac aactatcctt 360

accggccgtaa acggaatgaa tttgactgtg gttaagaata cgac

404

<210> 3341

<211> 318

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D2

<400> 3341

aggaaatttc agggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaataaaa gaagataaat tcaaaaaaga 180
atgattttat aaatacctag acagaaaact tcattgatag taaacaacta ttaacacatt 240
tttaaaaaaa cggcacttcc gttataagta agtactacct gatattgaat gcacaatgtc 300
gaataacgaa cgaggatt 318

<210> 3342

<211> 375

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-D3

<400> 3342

accacgcgtc agcaaaggct ctgtgacttg aaacaaggct acactcagtt tggaggttt 60
aggccctttg gagtatctt cctttcgct ggttggatc gacactatgg tttccaactt 120
taccagtcgg atccaagcgg taactatggt ggttggagg caacagcaat tggcgaaac 180
agtacagctg cacagtccat ttgaaaacg gactatcaag atgacatttc ttgaaatgac 240
gctttgaagt taactgtaaa agtttagga aagacgatgg acagcgctca gttaactagc 300
gagaaacctg aatttgcgac cctctcgtt gtcacacctg agcttctcca gttccaccac 360
ctttcaactg aagag 375

<210> 3343

<211> 405

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-D4
<400> 3343

agccccacgctccggccacg cgtccggcga acgagaaaagg tcggatcggt tgaaaagtat 60
ggaacacggat atggcgcttc tataagaaaa cagataaaga agatagaaat tgcccagcac 120
gccaaatatac tgtgtgcttt ttgcggaaag gattccataa agagaaaggc gtttggatt 180
tggtaactgta aatcttgcaa cagatcaata gcgggaggtg cgtggctct gagcacccaa 240
gcagcagcaa ccgtaagaag taccattcgt cgtttgagag aaatgacaga atcgtaacgg 300
agcaaataatt accaacttgg ctgtntgttc gcaacttgca agtgaardttt gctgttcct 360
ttatcaataa gaataaagag acgagggct ctcactttgc gacaa 405

<210> 3344
<211> 409
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-E10
<400> 3344

agggttagct ttgtttggc actgtttttt tggggtttca ctcgtgtgtt ttgtatTTT 60
aaaactctaa gaagactatt tatttcttgt tatgttttag agtctttct agactctgtt 120
ttttggagtt gttctactcc agtcttggtg gtaggtgaat gttcttagtg acaaagaggg 180
ttgtcacttt cccgccattc tccacagctt caactaccaa cttgtatacg cccacaactg 240
cacaactata ttactacaga gtcgtgtgt aaaacgacaa gttgagtggc tgaaaaggat 300
tggtaaaaag caaaggacta gtgagagaga gcacttgaaa acttgtatat ttgtaccccc 360
tagaaaactat ttccgcttga agagattgca agtttgggtt attcgacaa 409

<210> 3345
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-E3
<400> 3345

agggaagctg gcgagcattg ggtttcttcc cgagagagaa aacgagtgcgaa aagttgtct 60

ttcgatgtct agtgttgatg cgcatccaac aatagtttat cctcattatg tcagagctt 120
agatgaagaa aaagctcaac taccatctag ttttcctcga gaatattcgg aagagttca 180
acacattta cccaaagggtgt tgcaagcgcgg ttttcatata ctaaccaaacc taaacaacca 240
aaagggttaat ttatcaaata tttcgaaaaa ctttgcgttg agccatccac atattcacgt 300
cgttattctt cgaagagccc tggatggtgc tggttattac tccgcttacg tgggttccca 360
ggtacaaggt ccctcggtt ttatgcatttgg aggagctaca gcagca 406

<210> 3346
<211> 436
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-E6

<400> 3346

agccccacgcg tccgctccca tgaaagatac agagaacaag gacagtcaag atgttagagtc 60
tggaaaagaag agcgaaaaga agaaaaaagaa aaaggacaaa catcgtgata gtcacggaaa 120
acatagcgaat tcgaaggaga agcacaagaa ggattcgaag aaaagaaaac acaaacattc 180
gtctgaaaag aagaaaaagga aacgaagctc agaagttcca tcgacagatt ctgatttattc 240
aagtggagaa gaaaaaaaaata ccaatgagaa tctgcaacaa tcccagtttgcgacagagaa 300
tactcatagc aacaataatc ttatatcttc cccgcagaat aatttcacgt ctccacanaa 360
aaangatcga cccgagacaa aatctttctt ctccgaaaca acgaccagac caaactcagt 420
ggaatgcaga agcaac 436

<210> 3347
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-E8

<400> 3347

agccccacgcg tccgcccagag ttcaagaaat acgcatttca ggttcaagcc aatgccccgag 60
ccttagcggc ggaactggaa aagcgaggat ataaacttgc tactggtgaa actgataatc 120

atcttgtctt gtgggattta cgcccagtaa atcttacagg ctccaaaatg gagaaaatat 180
gtgatgctgc gcataattact ttgaataaga atgccgtaca tggagataca tcggctcttg 240
tacccggtgg agttcgaatt ggaactcctg cccttacttc gagaggtttc aaagaaagtg 300
attttgtcca agttgcagac ttttagata gagcagtcaa acttgctctt gcaattcaag 360
aaaagtctgg aaagaacatt aaggattca atat 394

<210> 3348
<211> 327
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F2
<400> 3348

agcttacaat atatatttg tgaaagacaa gaaagaaaact ctcctgtggg atggcaagtc 60
aaagggtcct cctcgcaagc taaaatttcc tcagggagaa accatcctgg agtcaactgaa 120
tgcctagacc agttatctag tcattcggag ccttcgcta tatgacgact tttaccgaaa 180
agaatccgtg attctggta aagtctgaca acgtttatttgc ttcttttgc agtcgaaaga 240
acagtaatta ctagtaaagg ctcagaagac tggagattgt tatttaaaaa gaacaatgtg 300
agtccctcagg tgtatctgcc cgccggat 327

<210> 3349
<211> 325
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F3
<400> 3349

agcccactct tccgccccacg cgtaccgcga agatgttcct tatgaacaca aagccgtaca 60
agaagctgcc gttatcggtg tgcctgaccg atctcgatga gagactgtcc gaggtttgt 120
tgctcacaag gtcgaatcca gaatttcgga atcagatctc aaatgattct gcaagtggac 180
actctgcgtc tacacctatc cccagaacat cacaatttca tcgcagaaac cattgctctc 240
ctcagcggtt gattcctcg agtttccag cagaacatgt gattgaaatc ttatccgcaa 300
tctaactaca atgttgtcac tggca 325

<210> 3350
 <211> 402
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-066-Q1-E1-F5

 <400> 3350

agagcagcaa agtgcaacaa ccagaaaagc agtcaactcc gccctcgta cctcccaagc 60
 cacctcagca agttgttag acaagtaagc agagtttgt agttctgaa gtggagtaa 120
 agagagtggc aatgacacga atgaggcgtc gtattgcgga acgactaaaa gaagcgcaga 180
 atactgccgc tatgcttacg acattaatg aagtagatat gtctgcttg atggagttga 240
 gaaatagttttaaaggaagcc ttgtaaaaga agcatggcat tcgtttaggc ttatgtccg 300
 catttaccaa agcagcaact ttggcttgc tagaacagcc ggaacttaat gcttatattg 360
 acggcagcga tattgtataat catgactatg tcgatatctc cg 402

<210> 3351
 <211> 410
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-066-Q1-E1-F7

 <400> 3351

agcccacgcg tccggcagcg ttgcattt ttgttgttag tgagtagtgt catggcagag 60
 caacaagaa gtgagagtac tgaagttaga agtgctgcag ttcccacccc ttgtataaag 120
 gtttgtgggt ttatggta ctcttccact cttgacatgt gctccaagtg ttatagagaa 180
 catttgcgcc aagaggaaca aagacttcaa gtggagtctg tatgtcagca gcagcaacaa 240
 caacaacaac aacaacaaaa gcaggataag gaacaagaaa tgactcaagg gtccgagttg 300
 cacgacttgc cctctaaaaa ggagcaaggg gaagagacgt cggtgaggt ggctcaacct 360
 agccagggtt ttgtgcgga gagttgccga nggaaaaact cggaatttgt 410

<210> 3352
 <211> 206
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-F8
<400> 3352

agcccacgca tccggccacg cgtccgcccc ca cgcgtccgg attgttgagc agtacaagct 60
atccatgccc gtttctgtat gggcgcttt tattcgact tagtatttag gcctccattc 120
ccacacctcat atacacagga agacttccat aaaactggga tagaaccac acaaaaacagt 180
gtgtccctgt gtacacacat tgaaga 206

<210> 3353
<211> 259
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-G2

<400> 3353

gtccgacagg cgctacnggg aatacaacta gtttccctag ttcggtttcc acggaaatac 60
caaccagtgt accaacaaca tcatcttcga ttactatcct tactgtcttg caagacaacc 120
actttgacga tacagtacaa gctataaatg cggcaggact tgactcttg tttaacaatc 180
cttccgctac tcttactttc tttgcagcan atgactctgt atggtctact tctacagctt 240
ctcaagctct gagtgctct 259

<210> 3354
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G4

<400> 3354

agcccaagcg tccggtttag gaacgatgaa gtggcaaagc ggtccttagga atacaagttt 60
taataggata caaacgctac tgctttctt gttgattatt tgcaacgtt ttccatata 120
ttactctata caatttata tgaacgctgg aacgaagcgt tgtcttcgg aagaaattac 180
ctcaaacaca aaggtgtttg gtgaatgtct tgttagtcgg gcggaaggct ccatgtccgt 240
agatctgttg attcgaggac ctcaagggga gactatagtg caacagaaga acatagataa 300

gcagtcattt agttcacaa caccacagca cgttttgct ggagattcga gtttgcttc 360
caacgatatt cactggcctc ctgcaagtta tcactttgt ttcgaagcta gtcctcctcg 420
tcctcctc 428

<210> 3355
<211> 341
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-066-Q1-E1-G6

<400> 3355

aggaccgaca caggtactcg aggagaaaagg agacccaaat taaggtgaga gaatggacga 60
taaggaacta ggcaaaagga tatggtatct gcggtagaaac atatgaaaga agcagcaccg 120
actgtttagc anaaacacag cactctgcag aaaaagagaa aatgttaaat tataaaattt 180
tccggctgcc aaattataaa aaagaaatcc attaaagtta aaaccaatta aagattgagg 240
tatagagaat ggcggtccta acggtaagga tccaaaggta ccgaattaaa tagacgttg 300
aaaggcgtcc attatgaaag gagaaacgat tgtaccactg t 341

<210> 3356
<211> 196
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G7

<400> 3356

gtcctccacg atagcagtga cccatattta cgtgagatca tttccatga ggatctcagc 60
aactggatct ggtatctgct ctgcacatc tggccggag catcatccac tgtttaccat 120
ttgcacaaca ctctgcacgc tatagaaaact gtaagatatc aatcggtcgg cctgccacct 180
tccactaaac aaatct 196

<210> 3357
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-G8

<400> 3357

agggagaaca ttgcaattgg ttactttccc ttaatgttt ctcatgttat tgatggttct 60
gtttcctt tacggagata agaaagtcaa ttagccttc tttattatcg gagttatatt 120
ctttattatt gcctatagtc ctggtgctgg tcctgttcct tggacatttt gtgctgaagt 180
atttccaact tatgtgcgtg cagcaggaac gactattact acttggtttg tgaacgcttt 240
caactttgcg ct当地tct cgtggccttc tatgaaggct gcatggggac ctcaggagg 300
tttcggattc tatgctggtt tcaactttct tggcatcggt atgcagttct tattcttacc 360
tgaaaccaag ggctttacat 380

<210> 3358
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H1

<400> 3358

agcccaagcg tccgccccacg cgtccgcccc caagcagtga atcagattga 60
aatgcatccg tattatgcaa gaacagatct gctcgaattt ttaaaggatgc gtggagttca 120
tgtgactgct tattctcctc ttgggagcgg taaacatggt ccgcttcaag atgagacagt 180
tgcaaaagatt gccaagaaac atgaaaggac acctgctcag gtattgatcc gatgggtct 240
acaacgtggg tttccgtta ttccaaagag cgtaaagaaa gaacgtatca aggaaaactt 300
tgatgtctta ttcaattga gtccacagga tatgaaggaa ttggaaagcct tagataagaa 360
cataatcctc aatcatcaaa aggaatattt gggttcaat attcacgctt gag 413

<210> 3359
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H12

<400> 3359

ggctcgaccc aaacgtcagc ccacgcgtcc gcccacgcgt ccgcggacgc gtgggtgcaa 60
atgagcgagc aaaccgaccc tccttctgaa ggcttgacta caaagaaaaga cctttccatc 120

aagggtggaga atacaactcc gacaattgaa ggaaaaagta tacctgaaag tttgtgggt 180
cagctggaag aacttgagaa ggctgagagt ctttcacaaa ctcatgttga tagttccaa 240
cgaaaaagaa aaaaagagga gttcaactgtg gagacttag aagaggtag tgtgaaagag 300
tcacctacga agagcccaca caagtctacg ggagttactc caaaactgga gtcgctgtcc 360
ttatcgaaaa atgaaaatag gttgaaaaga cttagggagt gtgacctcgc atcactca 418

<210> 3360
<211> 387
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H2

<400> 3360

agcccaagcg tccgtatac ttgaatatgc aagaagaaaa ggaatagaca gaattgtaga 60
gatgaacggc aaatggtgga tatatactag gacacctccc aatcgaaagg cactgcggta 120
ttggtatgac atggactgcg tgggttgaa cccagtcaag gacttacaaa cggccaaagc 180
ttatgcgaga agagtaaat aagcagtggaa gaagagaact acggtcgaat tgcccaaaca 240
agatatttgt gtacgacgta gcgacggaa gaaacacggaa gtggtcgcta ggagaggaga 300
agatatttgag tttgctcaag atacagcgtt tacaaggca agtaccgtcg gagtaaaagt 360
ttggctgaga aagaaaccgt actggag 387

<210> 3361
<211> 243
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H6

<400> 3361

agcccatgct tccgagcaat tacaattttgg gacatctgtt ggcgctgccg tttagtaattt 60
ggagtatgag tgagaacata ccaacggagg acgtccata ccacccgttt ctttaggagaa 120
ctgtttactg gacgccttgg ccacgcttgg ctaaactcag tcctaacgaa agggttcgag 180
ttaatggcag cggtctgatt ataacggcgt aaagtgggtt gatcatctac actgaactgc 240
aat 243

<210> 3362
<211> 327
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-066-Q1-E1-H7

<400> 3362

agggaaaaacg tcatgcagtt gcgtattcct tctgctgcag tcaaaggcaca gtacttcgac 60
ccaacgcagaag ttgttgtgga ccctgtaaga gatacatcac gtccttgg cactggaggt 120
tctgttgtac gaatactatg ttgcgatgga gtaattattt gtgcagatac tttaacttct 180
tatggatcga tggctcgatt tcaaaacttg tcgagacttg tagacgttac tgacaatttg 240
ttgttgggtg gtggaggtga aattccgac tttcaagaaa ttcaacgtct ttttagaaaac 300
ctcatcacat ttgacatttg tttaat 327

<210> 3363
<211> 351
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-067-Q1-E1-A10

<400> 3363

agccccacgacg tccgcccacg cggtccggctc aatggcggag aaaggactgg ttgttgtat 60
aggtgcaacg gggtccgctt gaaaagaatg cgttctggca ctggaaagtg aaggatatcg 120
tgtccgtgca gcaagcagaa gggttgaaac ggctcgttag atgctactcc acaaggtaaa 180
gaacccttcg agagtggact ttgtccatgt cgatgttatg gaaaaatctg tactttctag 240
cgtattaaag gatgctgaag tggttttctt ctgtgcttca gcttctgcan ggtggagagt 300
ccctggtaact tctaagaaca ccccgaaaca agtggactac ttgggcgcca t 351

<210> 3364
<211> 393
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A11

<400> 3364

acaaggcctca tagtctgagt catcagtaac ccagttggat agagcctcg agagacgtt 60
cgcatacttc tggtgatgat tatctatttc atgaggacgg tggaggaact actcagggca 120
gtggcgtgaaagaagc atccaaatag gagttgtt gggaaagagt tggtgtaaaa 180
ataacagttg gcagatggt aaccaagtcc ttgcacagt taaagggtg tcattcgaaa 240
caaagcccag taaatgcacg aagcttgta gtaagaatgg cgtaacggtg aaagttcagg 300
ataagacttt gggaatatg aatgcttagta ctcttacca agtgttaat acttgaaac 360
actgcgaaag ccaggaacca gaattgcgtc ctg 393

<210> 3365

<211> 384

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A12

<400> 3365

aggtcattgc caccaaacc caacgattct ttgtgtttt gatcgatgga agctctccta 60
tttctgttct tcacttgcac tttgttgaca aataagagtt tattcaataa aaccaaaaag 120
tgctatcctc gtagaagaac aagaatgtgt tcgtccattt ctgtggatag acgacttgc 180
tatccccgt ttcgttgtt agagaaacaa aaggatgcaa gttggacatt gaattctaag 240
gctgtatcag agtttctcca acaataaaaa cattctccag ttttattcag aaattgtttt 300
cctgatctat ttttgcaat tactccagaa gagctggcag gacttgcgtg tgaagatggc 360
ttcgtgtctc gtatcgatca actc 384

<210> 3366

<211> 345

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A4

<400> 3366

agcgccccaca tttggattct ccatgtcttg gcaagtctat gtagaccaac atttgcttgg 60
ttccggaaag gtaaaagacg cagcaatagc tagttacaa ggaaatattt gggcgcttc 120

tgccgggtttt caagcttcca cggaagagtt gaaaaagtgc attgcaacct ttcataaaac 180
caaagaagca gctcaaaacg gtatTTTTT gggaaataag aaataactttt tttgcgttc 240
gacagaagat actatTTATG ggaaactggg tgacgatggc ttttagctt tgcaaaaccaa 300
tatgtgtctc atcatagcga tatttaccag acccgatctt gccgc 345

<210> 3367

<211> 377

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A6

<400> 3367

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actatacgta gaataggaaa tggattgcgt cgtcaagtga gcaaagccat caaagacctc 120
atgtacagtg gtatccaggg catattgcaa aggagagag actctaaaaa gaaaaactca 180
aacttgcga cgttggTTTG gaagtttagat atgcaagaat accaaagtct actgagcatc 240
cagaactcat ttctggatt ggtgagaaga aacgattgtat agtgcataat cgtaatgata 300
tgggtcctcg cgaagcaata acctttgga tttagaacaat gaaacagcaa ggtttcaag 360
tttttgatac aaacgcg 377

<210> 3368

<211> 324

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A7

<400> 3368

cgacccaagc gtcaggcata ccaatgatcg ttgaggaatt gtgagcagca gcccattgcga 60
aaatgctatt acgtcctgtt tggAACACCT ttgcacagtt gacagagagg gggacagaac 120
aacttaggttt gctgtcagag aggtctattc aggaacttag tgccggaaac ttttctgaa 180
gaccctaaa tgaaggacaa tccccctcctt cgtcatcgat caaaaatacc ccacaaagtt 240
cttcttgcga gaaagttcct aattggaacg aaggggggga ttccacggca accacattgt 300
ttgcaacggaa atgattcga ggac 324

<210> 3369
<211> 394
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-A9

<400> 3369

acggcagagt tgatacagaa aatggaaaact agttggaaga aacacgttga aatttttgc 60
gaggcgctga ttgctttgtg gcatacacaa atgcttatga ttgatgagtt ttccaagtcc 120
tccgaggaga tacggccta tttcaagat tacttgaata acttgaacac aagtagtgga 180
aattatgtcg gggatggaac atcggcgaca cttggagaga gtatggaaca gtcaaaaagt 240
gctgaaaatg aagacaaaaag gactacacga ccatttcagc gttcgaggca aacgacgggt 300
aactcggaca gttcttctcc aacttttagat gaaaacggaa agcaagcttc gtcttcggat 360
atttatcagt ctatgagaag tgctcaagca tgaa 394

<210> 3370
<211> 371
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B10

<400> 3370

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caaagaccac cgtgaacaaa gtggcgacag aagtacttgc caatgccgt aagttgccga 120
aagaaaatgg acgaccaaga tggAACGATG tatatgatca ttgttatcgt atataggtgc 180
gcattttcg tccgatgcca aagaactatt ggttgggttt tttctgaat tcgtgcaact 240
tgttagttcc cacgccaacg aattgtgtga aaaggaaaac aaaaaggta tttctcccga 300
acacattta cagtcgttgg aagaactggg gttggagat tattgccaag aagtgaaaca 360
agtgtatgaa g 371

<210> 3371
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B11
<400> 3371

ggaacgtaaa tggtttggaa tcgttgataa gaaaaggcta ttttacaacc tttatacaac 60
aaacaaatcc agatattatc tgtttccaag agacaaagat ttcccgaagg aaactagcgc 120
agtggagtgt ggtcaccaaa gactggaact gctttcttc acttgcaag tcaaacgaag 180
gttattctgg tgttggtaact ttttgtaaat tgtttgccc gttgttcaag gcagaagaag 240
gtataactgg tttccttcct gcagagtgtc tctcgtaaa ctcgaaacga ccgtggttt 300
gtcacttgag agacaatccc acatggagag aaacttccta ttctgtgggg taccatttg 360
aagttggggg agactcggat aagttattgg gactagat 398

<210> 3372
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B2
<400> 3372

cacgcgtcag cccaagcgtc cgccccacg tccgcccacg cgtccgccc cgcgtccgct 60
caagatgtct ttttgaaac gtatacagtc gactctgctt tccaaacagaa actcagtgac 120
aaacgcaagt aaggccaatt acgacataaa gcacgttcgg gtttaccgct gggaccctga 180
aaagggagaa gaacctaaat tggttaccta ctcgattcct ctcaaagaat gcggtcctat 240
ggtgttggat gccttattca aaataaagaa tgaagtggac tctactttt tatttagaag 300
gtcgtgccga gagggatatt gtggaagttg tgcgatgaat atagatggaa agaaccgtct 360
ggcttggta actccg 376

<210> 3373
<211> 333
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B3
<400> 3373

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acaagtgaag aataactttag tcaattggcg ccttttagaga atgaaaggaa acgttagactc 120
gatagagcta tggactttt tcaacttcaa ctacaatatg cagaacagct gtatgagttg 180
gccaaagaaa aagcatatga tagcttcaa gcacaaaagg cagaacaaag agaatatatg 240
tggcgtacga agttggaaag agaaattacc ttgagaatcg taagattatc cattccatta 300
agggacccaa acggacaagt gattgtacga acc 333

<210> 3374
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B7
<400> 3374

aggttgacca aacagggact cgacagatat ggcttcgggt gttgcagtag acgatacatg 60
cgaaaaaggag ttcactgttc ttgtgagaag cacgccaaga aagtaccgtg ctattattt 120
caaactcaact gatgacacctgt cttctgtatg tgtggaaaag acgcttcccg cagccaacat 180
aaccaagtgc agtgcacaag aagactggaa aaagtttgc actgaattgc cccaaaacga 240
ttgtcgaaaaatgc gcaatgtatgc actttgagta tcaaacttct gaaggtgttt ccaaaaatag 300
aataatattc attcttttgtt cacctgaaag tgcaagata aagtcaaaga tggtgtt 356

<210> 3375
<211> 316
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-B9
<400> 3375

acgcccacgc gtccgccccac gcgtccgaag tttgggtt ttcttggtag cagttgtaca 60
ttcaacatca tcaaatacgcca aaggaggaa agaaagattc ttcaaagaaa gaagccacaa 120
gtaaacctgc agcagcagat gctacaaaga cgacagaaaa gtctggtccg gaagccaagt 180
tgaagggaac tggtgcaaaag aaacaataaa aagttgacta tgcatgtgca gtcctgttat 240
gttttggtag ttctgtttga tagttccag ctattttttt ggttagtgaat aaagagaaaa 300
ttttttatata ttacac 316

<210> 3376
 <211> 383
 <212> DNA
 <213> Cyanidium caldarium

 <223> Clone ID: LIB190-067-Q1-E1-C10

 <400> 3376

 cttttgaatc agttggatgg gttttttcc gatgataata tttaaagttat agctgccacg 60
 aatcgagtgg atatatattaga tcccccttg atgcgctcgg gtagaattga taggaagatt 120
 gagtttcctt taccggatga aagttctcg a gctcgatac ttcaaattca ttcaagaaaag 180
 atgaatgttc atcctgatgt caattttgaa gagttggctc gtagtacgga tgatttcaat 240
 ggtgcccagt tgaaggcagt ttgtgtggaa gctggaatgg ttgctctaag agctgataga 300
 acggaaatag ttcatgaaga ctggtagaa ggcattgcac aagtgcagc caaaaagaag 360
 ggaaatttga attatttcgc ttg 383

 <210> 3377
 <211> 384
 <212> DNA
 <213> Cyanidium caldarium

 <223> unsure at all n locations
 <223> Clone ID: LIB190-067-Q1-E1-C11

 <400> 3377

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 aaggactttt attaagatcg cttttatttg ttcccgaaaa tagtgagaaaa atgttacaaa 120
 aagccttgca ggctcggtca gatgcttga taccagattt ggaagactcc gtaccgaaag 180
 atgagaaggt cacggctcgta aacctcgttt cccaaatgtt gccttcgtta agaaacaata 240
 ctccaaagaa ggttcagata attccaaggg tcaactcttt ttatacgcag tggtttgagg 300
 atgatttaaa ggcagttctc caacctggga tatcncagta accattggaa aggtanaaaag 360
 tgctgaagag atgaaagaaaa ttat 384

 <210> 3378
 <211> 371
 <212> DNA
 <213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C12
<400> 3378

gcaccgaaaa gtagttgtt tcaaccgatt gtacgggtgg ttgaaagggtt gatgcgttcc 60
tggaagttgt ttttattgtt tcttatgtct ccattggctg gtcgatattc accggtaaga 120
ggatgatggt tgagggaggg gttttaggt gcactgacac acaacaattt tgacaagggtt 180
tcactggtgt tgaaaatatt gggtttggtg ccggaagaga ccgctaggat gtcgttggat 240
gacaacacaa acacggtgaa tagggtacaa acgggacatt tggaagagtc gaccataaca 300
cataacgacg atcaggaatc caacttgta gttttttagt atggaatgat tgtatgtac 360
tctgaaaaag a 371

<210> 3379
<211> 335
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C5
<400> 3379

aggaaaacctt ggatagaaaaa gcagaataact agtctttttt ttcaagtatac caacttgcaa 60
ttatgaaaac aacgctatgg aattcggtta aaagaataat tggactctcc agtcttgcaa 120
cctagaacac taacgcttct tcacaaactt actcacgatt attccataca gcacggaata 180
ctagtattcg tacatccatt ggaactgaca gttttggac ccagaaacac ttgtttgata 240
ggaaagggttt caatattccg aaccgaaagt atttcctcaa accacgtcaa gacgactata 300
ttcaactttgg tggagaagg gagtcgggtt gggat 335

<210> 3380
<211> 319
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C7
<400> 3380

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ttttcttaggt gcagctgttg tttgtatgg tttgcaacac gataaattgc cactagagag 120

agtccagttt gcaaaaacct tttcaaagcc cgtttcaaaa gcagataatc aagttgttcg 180
agcaacacccg gaagaatgcg attgtcttcc gctttggcag tgtatgacta gtggccaaga 240
cgactgttct caacttgaac gtgaactgag gctctgtatg gaacgaaaca aggttaaggga 300
acaacacaag cgcactgag
319

<210> 3381
<211> 367
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C8
<400> 3381

agcccacgcg tccggagtgc tcagaaacta aagtttctga ctatcttcaa gaaaccttca 60
tggtcgggaa cgaagaactg tccacgacag ggcgcatttact gggggtcgcc tcttcttattt 120
tgttacccaa gaaattcggt gaagacttcc ttggagag ttctggcagt aaaatttcta 180
gggtgttttt gagaccggat ttgatagacc ttggaaatgg tcttagtggat gagcgacaca 240
tgccgcagggtt aaatatattttt tctgctgcta gtgggttagg caagactata tatctttatc 300
tgatcgctgt ctggcccgaa cactttgaaa tcccaactgca gtatatttggaa aacacgagag 360
atctgct
367

<210> 3382
<211> 380
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-C9
<400> 3382

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ctgggtttttt ttccatccca cggtggtagc ttttgtatgt acactcggtt gttgtattgc 120
attgttgtgg ttcttattttt aactggctat tgccaatccg caatatcgta gttggaaaaaa 180
agagtggata gctatcggtt tgcggtcgat aggtttggga gaaggattgc tattttacgtt 240
gatatacagt ggacaaagtt tatgaactaa gttttttt ccctggtagt tgaggacagg 300
tgaaatattt tcctgggttgc ttgtcttact cgtcgagccc cttgttggaa taaattgccc 360

ctagcctcca tttcttcgc

380

<210> 3383
<211> 351
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D1

<400> 3383

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acacaactgt caaaattca tatttcagtc attgtatgca cacaatgagc agaagagtaa 120
aaatatttg gagacatcaa gcaattatcc caatagaagc tcataaagag tattcctcag 180
ccaaagttag cggagccagg catggttcaa ctagctgcc gttcataacc gttgagattc 240
cctctgatat cagatagttt tcgcgtgcgg atggtttcca gcaagagatt atgttattga 300
tcaaacttct gaattatcta tcagaaactg ggagtccaaa cgagagataa a 351

<210> 3384
<211> 398
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-067-Q1-E1-D11

<400> 3384

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acctccccctt tttgcaaaaa gagaaggaa agaagcaaca acgaaacagt cttcacgtcc 120
tgcgtttcg ctggccaacg tgaagaataa tcctacgagt gaaaaaccaaa gagagaagac 180
caaccaaacg acgaccctc caactcagaa gcctagatg acctcttctc tttttggggg 240
aatgctanga agtatgctcc ccatgtttt atttatgaac tggttcaaga ggaatcccga 300
ggaaaggaa ccagacaaag atgagatagc tcagaagaag tgtcagagggc ttgcgtgcaa 360
tattcaagat tgtttgaaa aaaacgacta tcagcaaa 398

<210> 3385
<211> 115
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-067-Q1-E1-D2
<400> 3385

agcccacgctc tccggcgctt aagttcacga aaaattctac tggagacttt gtggAACGtg 60
atccgggtctc tgctgctgac gtgaaaggcag gaaagtccgt cgttcaattt ttgga 115

<210> 3386
<211> 356
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D3
<400> 3386

cacgcgtcag ggaaagtgaa gaacttacgg gtggatatgg atgccatgtt tatttggaaag 60
ctactggaaa tcccaagagt gttgaacaag gtctctagat gattcggagc gatgggtgat 120
ttggagagtt tagttagtc aaagacaaga ctgctgtgga gtggacgatt attggtgaga 180
caaaggagtt gggtatacta ggagcacgtt gcactggta taatggatat aaagtagcta 240
ttgatatgtat tctccgtcac caaattcctg gtggcgtat tgttactcac gaactaagct 300
tagacaatat tattcaaggc attcaatatg tcaacgagtg gaaagagtcg attaaa 356

<210> 3387
<211> 362
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D4
<400> 3387

agaggacatg gaagggaggc gcagtatcct aagcaagtgt ggcaccctt tggaggcaag 60
tttcctcatac cgagggattt gaagaagcac acgaatatacg ctacccttat tatggcactc 120
actgtgatcc ctatttagtta ctatgccgag aagcatactg tctattacca gtatccttat 180
cataagattc cttggaggcc caatttgaaa acttttgatg aagatttggaa ggagcgaaga 240
aaggccaaga tggagaggaa gagtggtgca agcgatggtg atgaacagct cgattcgtag 300
aacttggaa aaaaggcatt ctttgttg ttaagtgttt tcgataaatg cacttgtcaa 360

ct

362

<210> 3388
<211> 370
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D5

<400> 3388

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tacgttagtc ttttattggc tctcttatgc gtaggttctg ctctggctgc tgaattggca 120
cctggaattt cggaaaaacc ggttagagaga ggatatgagg aaccctgctg taccgaatat 180
tgttattggg aagaaatatg tatcacaccc acacccacac ctacaccagc ctactattac 240
tattattacg caagagatgc aaaacaggaa aatgtcgaga gaagcgtaga aaagagtatc 300
tcttccgcag aaaaatctga tgccggttcga gggtatttcc ccacgtacta ctattatgag 360
actcctacat 370

<210> 3389
<211> 355
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-D7

<400> 3389

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tatgacgagc atttctcgac gccaaatgat tgccaagact tgccgttagcg atgggaggaa 120
gagcaggaga agagcttatt tttggggatg acaatgtaac ctccggtgcg gaaagtgact 180
ttacccaagc caccagactt gcagaagcca tggtaacgag gtacggaatg acggataaga 240
ttggcaaatt tgtgttgggg agagaaacag agagtccgaa aatgaggagt ctcatcgacg 300
ctgaaatgaa aaagttgctg gacgaagctt acaatcacgc caagcaagtt ttgac 355

<210> 3390
<211> 397
<212> DNA
<213> Cyanidium caldarium

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<223>      unsure at all n locations
<223>      Clone ID: LIB190-067-Q1-E1-D9
<400>      3390

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aaactcgaaactattttatt tcttggtagt ttttagagaa ttctctagac tgtgtttttt 120
gggcttgta tacggcatgc ttgggggttg gtgattggct ctagagacaa agagtattgt 180
tactttcccg ccattctcca cagctccaac caccaacttg tatacgcata catatacata 240
accacatatt actcgagagt cgtgggtgaa aaaacgacaa ttcgaatgggt tgaaaaggct 300
tgataaaaaag caaaggacta gtgaagggtgt tagagaaagc acttgaaaaa gggggccact 360
tccttgata ttttgtcccc tagtaactaa ctaattc
                                         397
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<210> 3391
<211> 374
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E11

<400> 3391

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aggaatgata tctattggac aatctgttga cgcgtgagac ggaagaatca cccatggttg 120
gagatatgat actttgtcaa tatccatatg tcgaaatgaa gcgttggatc atcatgcata 180
atctgagtga gcacgtcatt gaacatggtt tgcaatggaa aactgcctgt ggtagccatc 240
gttctttcg ct当地点tacatc ttcgatagtt gtagtatcaa catatgagtt gcctctcgcc 300
gaatacatcg taggtttctc aatcctactc cttacaaggt gtcggttcc cagacattgt 360
ttgattttat ccat 374

<210> 3392
<211> 366
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E2

<400> 3392

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gcctgcattg cttatgact acagtgcctt gaaaccacat atcgacacta tgactatcaa 120
cgtacatcac aaggccatc accaaactta tgtcaacaat ttgaatggtg ccatacaagg 180
gaaacatggg ggtcagttca agggctcttc catcgaaaac atccagagga atgctgcaa 240
ggcacctgat gctatcaagg cagctgtgag aaataatggc ggtggtcact acaatcattc 300
cttggggg acactcatgg cacccacagg gatctgcaaa tagtgcattt cactgtgagt 360
tgaaac 366

<210> 3393
<211> 345
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E4

<400> 3393

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gctttgaaaa aggcttatcg caaaacttgct gttcagtggc accccgataa gaaccctaata 120
aataaagagt ttgcagagaa gaaattcaaa gaaatatcgg aagcctacca agtgttgcg 180
gaccctgaga agaggaagat ttacgatgca tatggagaag aaggcttagc cgcacaaatg 240
ggaggcggtg gtggtgcaaa tggtgccaa ggtttggtg gattctcttc aagtggtgaa 300
acaacattct tccgaagtac gttcaagat ccggaaagagt tgttc 345

<210> 3394
<211> 352
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E5

<400> 3394

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catgtcattt caaaaagatg aagaaccaca cgattattta ttcaaaattt ttctcggtgg 120
cgattccgga gttggcaaat ccaacttgtt gtggcgtttc accagaaatg agttcacct 180
cgactcgaaa tccactattt gagtggagtt tgctaccaaa acatttcgtt tggaaagatgg 240
aaaggtggta aaagcacaga tatggatac cgctggacaa gaacggtaca aagctatcac 300

cgctgcctat tatagaggtg cctttggc tttgttggta tactatatta cc 352

<210> 3395

<211> 393

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-E9

<400> 3395

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aggaaggata tccattggtc gatttgtga cgcttgaaac ggaagaagca cccaaagttg 120

gagataagat actttgtaga catccatatg tgaaaaggaa gcgttgtatc atcgttccta 180

ctcgtattga gccgttattt aagttggttt ggaatggaa aatgcctgtg gagccatctt 240

tctttcgct ttcgcatttt cgagagttt gtaagcaaga aatgagttgc ctccggaaag 300

accatcgtag gtttctaat cctactcctt acaagggtgtc gtttcccag acattgtttg 360

attttatcca tcgtttgtgg ttgaaagaaa ctc 393

<210> 3396

<211> 387

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F11

<400> 3396

agcttttgg actttggatt tgcacgtgtg ggtgtgctca gtcagaactg cttctcagtt 60

agttacgcaa tatgcctagt cataaggaac aaaataaagg aattaaaata tcagctgacg 120

gttacgcact aaagttgagc ggtattcggt tggacgtaga cggcagttt gtcactatgg 180

tggacgcaga cgacctcaga gcccctcatgt ttaaggaaag cctcaaggaa aagtcaaagc 240

tgcacgtgtc aaaatttttcaaaaatgttattt atgaggagaa taaggactac ttttattata 300

tgactcatac ggagaagaaa atgtttttt ctctggaaat tgcacgtgtc tacgctactc 360

tggtggaaaa ctcgtttctg cagaaat 387

<210> 3397

<211> 363

<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F2

<400> 3397

acgcgtcagc ccaagcgtcc gggcaagtcc aacgtcgttg actgatttgg tggaaataag 60
ctcctttgt tgtggtttt ggatgcaagg cacgtatccg taccgactgt cacttattgg 120
tcgtacacctt ttccacaagt ctgccccaac ccacttttc aattatttaa gagacagtgt 180
tcaaaaagct agacagcaag aagtggatcg aaaacaattt gagttgttaa aaatacagtg 240
tgactatatt ttgcaagacc cgccattgaa tccaaacaac tacttagaac tgctgaaaga 300
agcaagagaa ctctaaaaat tcaaagggtt ccgcgaaaag tttgatgttag taaaacaaga 360
ccc 363

<210> 3398
<211> 347
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F7

<400> 3398

agccccacgcg tccgcacatcgaa gacaaaattt tattaatggc cgatatgttt tatgcggaa 60
atgaaaattt gccgtgtctt acttctggtc gcgatgccgt gatcgaaaac ttgagggaaac 120
gttttatgcc tggacaaact cgacatcaac gagctcaacg aatgatgaga cttatcgacg 180
aaagtatcgaa taattggcat actagatggt atgatcgata tcaacgtctg tatacgaaa 240
ttcattgaga tgtaatgcac aggttgttggaa atattatatt cattttgata tataaaacgt 300
gtatgtatgg gatatatata tatagatata tatatatatg tattaac 347

<210> 3399
<211> 314
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-F9

<400> 3399

agcacagatt cctgttgata ttcaagtggaa gatttgtcat tataatggaa tatttgtga 60

agaatcgtcc aaagttcccg ttgcagtgtat ttaaaaagta tttacgatg aagatttgg 120
tgaagaagat gtgatattga agtggttata ctctgaaaac agaggagtgg gaggaaagg 180
tgcaaggaac aatgcttcta tggtgggtga gtgggtggag aatgctgaat cagaaaagtga 240
ttcttcagcc tgattgtgtt gttatgtgag tgcttggttc gtgaaataaa agcgattcct 300
tgtttctgc accg 314

<210> 3400
<211> 288
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G2

<400> 3400

cacgcgtcag agaaatccgt taaataatcc gaataaccaga ttagttgtta gttatgg 60
gttggtaac actgcttctg cagggttatt cggttatgtat aaagagaaaa gcgagaacgg 120
gatgttggga agttcctgaa aagggtcttt gttccactgc cggtgggtgg tgggtgggtt 180
ggaggttttgg tggctatgaa aaagttcac cataagacaa agaaacagag ctttcttcaa 240
aacgattatg cctgtgttgc agcaaatgtg ggaatgtat gattgggtt 288

<210> 3401
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G5

<400> 3401

agtctggaag tgtgcttagga ataagcagga gaagttagaa agagtaggaa aagaagaaaag 60
gagagggcgt aagacgtat acagagttagg aagaaaagag aagagagcta gaaaggaggt 120
aaaagaagag taaaaggact agaagaggta cgaaattcac gaggaaggag cgtgaaggaa 180
ggaggaatcc caagtaatcg aggaagaaaa agcttcgggtg aaagcgtgaa cggattttgt 240
acacactgcc cgtcaagttc tggaagtgtg ctaggaataa accgagaacc ttacctctcc 300
aagaagggtgt tgcacggctg tcgaaagaac gtgctgtgaa gtgagagaac gtacgagaaa 360
g 361

<210> 3402
<211> 365
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G6

<400> 3402

gactccacca gtcaacgatt cgggtgcgt gctgaacacg tttatgacgt aaacgagaat 60
accaagttgc gttttggtgg gaaagttcct cacgggagaa tcggaccgg cacgatatgt 120
caactggccgg tatgacgtta cgggttccaa agaagatttt ccgataaaacg ttctgtcacf 180
tgcgatatgt ataagtaacc agtgcacatcg cgatagtcgt gccaaaaaga agtttgaagt 240
ggacgaggac acttctttat tcttcttagc caaagcttgcgt actcaggaac taacaaaagg 300
aagtttatatt attggtaaag ctggagtgac acgtgacttt cgtttgggtg aagacaactt 360
tccgg 365

<210> 3403
<211> 388
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-G9

<400> 3403

agccttgtgt gagtgttcct ggagtgaaga cgaaatatga gaatgtgaat gtcgttacag 60
ttcgtgagaa tacagaagga gaatacagcg gtttggaaaca cgtgggttat ccaggtgtgg 120
tagaaatgat caaattgatc acgagagaag ctgcgttgcg cggtgctaga tatgctttg 180
aatatgcgaa gaacaatcaa agaaaaatgg taactgcagt tcataaagca acggtgatga 240
aacgagcaga tggctctttt ttagaatgtt gtcgagaagt ggctcaagaa tatccgaata 300
ttcaatatga agaattgtt atcgatacat gtgctgctcg cttggcacag aatccttcgc 360
gtttggatgt catggtgatg cccaaattt 388

<210> 3404
<211> 223
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H12

<400> 3404

agtgagtcgt atcatgcgtc cgcccacgac tccgggacgc atgttcggga ccccattcgg 60
cggcgacaca caaccgtaaa tgctgactct caggtcgatg acggggagta catgacgaaa 120
ccaagatcac cgaagcccgaa gtactatatg gagtactgtg tctgcaagca tgcacgtatt 180
tctaccagat agtgtaaacc gcgtcccttt tgcatatatgt ccc 223

<210> 3405

<211> 381

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H2

<400> 3405

cacgcgtcag ctttgcaatc gatatcttc gttgctttga ctgccaccgt tgccgctgg 60
tttacaacctt tagttacgag atacaaggcat gtattnagta tgttgagagc tagatggttt 120
agggacgtgt ttgaagattt gcgcttaaga cttcgagcaa gtgaagccgc cgccataagg 180
gagagattgg acttgctaga agctaaaata ttgtcttcaa gcaacagcag tagacgttct 240
gtgcattcgc ctcgtacact tgcagaagag aaacctattc ctgagtgaaa tctagttacc 300
agagaagatt tcgttactct tcgaacgaga gttagatgatc tgtccaaaga gttgactagt 360
atcaagtccc aagctgacaa g 381

<210> 3406

<211> 392

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H4

<400> 3406

gtaagagtaa aacaattccc aagcccaatt aaagtagttt ttttatattt cgctgatatg 60
cctttgttcc tcaaaacata ttgaaagctt ttgaatgtgt taaagagact gatTTTCTT 120
tattttgtt ttcgtgctat aatttggtaa tgttccgtt ttgtcgccctt tcttcttattt 180
ctaaaggaca agcctttgaa cacgctgtgt tttgtatct ttcctacttg gtttttgca 240

tacgttagtac tggaggagtt ggtgacgggg gtatcgactt tcgtgaaact tgaaaaccta 300
ataaaagcaat agagcctgta cctgtcgta gtcagtgtaa aacattatca agaaaagttg 360
gtgtcacgt tatacagagag atggaaagaa tc 392

<210> 3407
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H5
<400> 3407

agccccacgcg tccgcagaga ccttccacaa atgacatgaa tgaagcaagt tgcttccgt 60
aaattgaaag gcattgtatt acataccaag tgtgttgtaa gacttgagtt actgcacatg 120
ctcctttgga ttgttgcttc cgacaccgtt ttgagtaaaa acttccgaag taactatctc 180
ttttcttgtc cacgaagact tcaaagggcc aaaaacattc gtactttat tgctgcctca 240
ctatcaagag tattttaggaa aactctgtt ggttccacag tgaatggcac tcacggtaca 300
aatattcatc caggaatgg tgcacaccc ttgaagaagg aaacacaaca tctgagagct 360
cgtcgaatag aagaaaatca agtgttggag gtttc 396

<210> 3408
<211> 381
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-067-Q1-E1-H9
<400> 3408

agaggatcca gttccttata gtaatagagc agctactttg accaaactag gacaattcccc 60
ttctgcttta gcagattgtg aaaaatgtt gcagctagat cctcaatttg taagagctta 120
tgccagaaaa ggtgctattc atttctatat gaaagaatat cataagagtt tggatgccta 180
tcaacaagga ctcaagtgg atcctaataa tgccagaattt aaggaaggat tgcagaaaaac 240
tttgagtgct attgcagaac aacaacgctc cgagaaacct gatgaagaac aaatcaaaca 300
tgcaatggca gatcctgaaa ttcaaaaat attgatggat cctgtattac aaaattgtt 360
acaagaagcg caatcaaatc .c 381

2000 2000 2000 2000
2000 2000 2000 2000
2000 2000 2000 2000
2000 2000 2000 2000

<210> 3409
<211> 435
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-A2

<400> 3409

aaagaacaac gaagcattc tgattgtcaa ctatccaaag gacgagatga gttgggacaa 60
cgatggacag cgcctttgga caggcaaaga cttttagaa tatgtcaagt tgagatgggg 120
aaatcctta tttcgtagaa attgctgtt gtagtaca ggcagttatag tatcttgtga 180
caactggaaag gttttacaga gttgggttc gtgtgagttt ttgagatcaa tagtacgatt 240
attttaggtcg ttgcactgct tgaagggtta gaattaggaa tggtaagag tatatccaa 300
ccatctagta atcaagcaac agtagaagct ctatcccct cgaaaaact gtatccc 360
aaggatccag taacangaaa gtattggacc gaacgagatt ccaaacgagt aaatccacat 420
gtttatcc 435

<210> 3410
<211> 274
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A3

<400> 3410

cgcgtccatg gaaaaaaaaaaa aaaaatcaga atgataaaaa aaaaaaaaaaag aacaaaaaaaa 60
atagaaaaaa aaaaagaaaa aaaaatagaa aaaagcaag actttgtaaa aataaataaa 120
atgggggtg gggaaaatca ttaattcgt aaaaaattgg tgggtata ataaatcgca 180
ctatagttatc agtgtgacac tggaaaggtt ttacagagtt gggttcgtg tgacttgg 240
agatcaatat taggattatt taggtcggtt cact 274

<210> 3411
<211> 372
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A6

<400> 3411

agcaaaaacaa caacaacaac aacaaccgtc atcatatctg aaacaacacg tactccacga 60
acatcgcagt tggtcgttc tttaactact tgtactatta aggaacctga cccagtattt 120
cttagttctt ctttcctcc ataacaacaa tgaaaaaac cagcagatgc ttctcggttgg 180
ttggaaataaa aggttggct gaatttggaaac gtatggaaaa tattccttg cgtgaataat 240
aaagtgttt tcaacttatt tcttggcata taaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 300
aaaaataaaaaa aaaaaaaaaaaa caaaaagaaa aaaacaaaaa tagcaggaaa aaacaaggac 360
ggtgctaagg at 372

<210> 3412

<211> 346

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-A9

<400> 3412

taaaataacg ggtaaaacca aacaaccgt taaaattcg cccttctaa aaaaatctc 60
gacgcacagg gatatgaagt tcccttcaag gtggagccc ttgatgagta ctgcattcaa 120
caactcaagg aatacgtgg aaataacccg gtttgcgcta tacaggaagg tctgaaattg 180
gacgaaacat atgaagataa catagagaat gaggaacaaa agaagtctt cgaacagttg 240
ttcactgtta ttaacgaaat tcttggagac aaagtggaga atgtggtagt ttccgaaaga 300
cttgcggaat ctccatgtat cttgttacc ggtgaatttg gtttgt 346

<210> 3413

<211> 410

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B1

<400> 3413

acgcgtccac ggacgcgtgg gccaaattct caaaagattt tccttcactt gcaaactatt 60
ttacatcttt gctacatacc aagtgccatc ctgctgcacg caaaccaaca taaaagactc 120

gaagcgacag ggaaatattt actccacttt tgcgtgaacg gtttttagtc atcctggttc 180
ctccccagac cctcgcttc caaggtaaca atatcctgga agtcgggttt cgagtcatca 240
ggcattattc tgtactctgt cttttgcgt agcacattt aagccttgc tc ttgtgaaagt 300
aatccttctt cgaaaagtgt acgaaaactg cttgcgaat gtttgcgtt attatcacta 360
agataacggt gatgatacac agaagatgct tgaatttccc tttaaaact 410

<210> 3414

<211> 398

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B2

<400> 3414

cccacgcgtc cgcccacgac tccgcccacg cgtccgcccc cgcgtccgcg gacgcgtggg 60
tggtgttgc acagccactg ttttggaaagg tctggggttt gagttgc ttg gttatgatgt 120
gtttccta at caagacttta agaatttggg tggtcgat at gtggagttga atgagttgt 180
ttctcagtcg gatattgtga gtttacattt tccattgaat gagaatacca aacatctcat 240
ccgtgcagaa acgctttcta taatgaaacc tggagcttat cttatcaata cgagcagagg 300
agcttgatg gatacgcaag cagtatttga tgctttat at tcaggacata ttggggcttt 360
ggcaaaggat gtat atgaaag gaaaaggaaat cttgtttt 398

<210> 3415

<211> 411

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B6

<400> 3415

ggccgaccca cgcaaccacc cacgcgtccg cccacgcgtc cgggagaaga gagaggaatg 60
ttggcgttcg tgtatggaca aggccgttgtt atactacaac aacagcaaca acactcttta 120
caaacaagaa ggtgtttcct aggaaaccaa aactat ttttgc tcgggaagaa taatgctact 180
gggaaaaaca caaaaacagt agtttcaaa agacgaaaac agtagtgcg tgcacagacc 240
agtcatgtcg acagtctagg ttgcacgagg gaccagaaaa agaatcaagt tgatgttacc 300

caagttcctg accagagagg acacttttgt agatatgggg gacaatttgt tccagaaaact 360

ttgttctttt gtttgaaaaa ctttacaaag tgtttcgagg aaaccacaga c 411

<210> 3416

<211> 397

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-B9

<400> 3416

tttcttgtgc aatattcatg ctgttgtgt catccgtcaa ctaacactat attgatttt 60

aatggaatag cattttctta gaatccattt gacagacact cctacacgag ctggttatcc 120

aaaacaagat gtgcccttctt accagtgctc atcatcaattt gactcatagt gaaacccaaa 180

agcttcgttt tcccacgtttt gtagatctcc acgttctttt gatacgagca catactagcg 240

atattcaact gtcccaacat gtccttatcc tttagctgtttt gcaaaccacg ttcatctaca 300

atgcatttttta atgagccacc tttttccaaa atgaatcgaa ggatatcattt cgcaattctc 360

acactgagtg tcataatttttcaatgacggag attatttt 397

<210> 3417

<211> 429

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C1

<400> 3417

aaaaaaaaatgt ctgctgaacc ggtggaaag ttaaactctg gtgcaactat tcctttcg 60

ggctttggaa cctggaaagc tgagccttggaa gtgggttgtt aatgtgtgaa aactgcttat 120

gacgtcggtt acagacactt tgactgtgct gctatatac agaatgaaaa gggaaatttggaa 180

caagctttttt cagaactttt ctccagagga gtgaagagat cagacatattt tgcacttct 240

aaagtgtgga atacctgcca cgatcctcaa agagtggcg aagcttgtaa acaaactctg 300

caagatttac gtctggatta tctagacctt tacttggttc actggccttgc caactggag 360

tttatgggtc tgccttattac tgcagataac tggattccta atgataatga tggaaacata 420

aagttttcc

429

<210> 3418
<211> 358
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C11

<400> 3418

acgcgtccac gatccgtcga aatattcaag ttgatatcca catacacagt ttttagataga 60
tatgtatatg ttgaaacgtt ccatttcctc tagttgtaa ttatacagtc aaattctaga 120
ttctccaata cgttgtctac ttgttgttc cactccgagg cagtcccatt ggaaaaatgtac 180
gtcttagtcca cgagatgggg aagaagagga aagcagcgta gactttgtca agtcttatca 240
gaaaaaagttc cgatcctctc attctccttt tttggatttg gaagaggaag gcctgaaaca 300
aaaggcttct gaagacagaa aagcttttgtt gagagagttt tacaaatatc cagttttt, 358

<210> 3419
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C3

<400> 3419

agcgagcgaa acgcaatctc acggttctg taccgacaat cgatgaacaa ctcatctgc 60
atcaaatgtt caaaagaggc tttcgccag aagaagaagt atacatgagt caagttaccg 120
ttggatcaac tcattttatg cttccagatg aaagaaaatgtt gtatggctt acgtttggag 180
gagtttaat gccaaggagcc tacgaattgg cttcgtcaa caattatgg gcgttcaac 240
aacgtccaaac ggcagtagaa gttggagata ttatgtttat caaatctgtt ccagtggca 300
gcattttgga actgcattct tctgtatgtt atacaaaaga tacttatcaa gtatggat 360
tggatgcgat ggtgaataat ttgatgcacg accctccaaac c 401

<210> 3420
<211> 418
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C4

<400> 3420

acccacgcgt ccgattgtt gcaacgacaa gagatgcgcg gctggggct atggagttt 60
ttgttgtct gtttgtttt gttccacta tccaactccg ttcaacaaga tgaagcgttt 120
gttcctattg gtcctttcg tgaaaaggat gagcacgcaa cacagccttc acaacctgtt 180
gtaaaagccac atggtagcaa acactggaag ccgctccagt gtactccaa caaggaaaaa 240
gcagaggcat tgatacaaaa ggcacaaaat agtttgagtg cgctttctc aaaccggttt 300
ttcaagcata tagacgtcga aagttgtcaa gagtttagag tggtcgaaat aaagcttgac 360
gaaaaaggtt tgaatttggtaaatggacaa gagcatatca aggaaagctt tagaatat 418

<210> 3421

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-C9

<400> 3421

acgcgtccaa gaaaatggaa ttttcaatc aaaatggtt tcgtcgatg aagaatactt 60
gtttggatga tggctgccgt gcaactaggc agaacaagaa ttgtgagcgt aactatccaa 120
atgagaaaatc ctatgcagct tccaagaagc acatatgtaa agaattatccaa 180
acaactcgatc ttcatccag aaagaaaggat accacacgc tattcaaaaca caagaagcaa 240
ttatggagca cagatatcat tcaagtaacg acctttcgga ggagagcggt catctaagaa 300
cccaagatac taacgtgaaa caaaatgagc tggcaaggta ttttagggaa gaatatcaag 360
ttgcaaagaa caatgtgaca gaaaaagtgg atgactcatc aactcggtt tctttggcac 420
taatgg 426

<210> 3422

<211> 420

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D1

<400> 3422

agttacccatc acttgtggttt gggattgttgcgcaatgttc aagtcgctag cttttatttc 60

catctatttgc aatatccac gctgcagtag ctcggtgcaa acaaacgcag cacgaacaat 120
atggaaacct ttattatcaa cgtatcaaca gagactttat tccggaatgt ccgttgatat 180
tcggtgggtc acttacaaaa accgaaagtc gtacacttca agtatactaa gtttcaagtc 240
ttcctattcc acacaaggag gagacacgga gggcaagata cctcattcta aagatatgaa 300
aggagaacct cagtccgctt cagatgctta cgacaagact tgggctaaag aaaacttcaa 360
agacacttct gaaaatgcag actccgacag ttccaaaatt tgggagttga aactacgtt 420

<210> 3423
<211> 307
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D10

<400> 3423

acgcgtccac cacgcgtccg taccatcgta tttcatttca cattttctt gtagaaaact 60
atgaagtctt tcggaattgc tattgtttc ctaagcttg ttattgcattt ttatgcagca 120
gttgtgtccg aaatggcatc caatgagttt caaagaggag gatacgctcc ttctcattcc 180
aaggaatgct gcatgaccac ttgtcaatat gcagaacttt gccaaatttc tcaaccaact 240
tatagccaag ctccatcttta cattccatctt cctacctatg gccaaactcc gtcctacaat 300
caatatt 307

<210> 3424
<211> 348
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D12

<400> 3424

atgaagatat tttagtttaa cgtggatatg taaagcagct gttcagggtgg gtttactttt 60
attataactct agcagacact ggaaccaattt atttcgccg ctttctgaat cttcctatgg 120
aaattgttcc ggaagctaga aatcaaccta tcagattccc tgggttcgt tctttgtcgt 180
ttccacaaga aggtcaagga tggagaatgg atctggaaga ggagacttcc gacgcgaatt 240
tcgtgaaatg tttgggtggat gaaaggatg ttattgtact ttagaagatg gtccttaagc 300

attgtttgg caaccataaa gathtagaaa cttctattac caatcaag

348

<210> 3425

<211> 431

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D2

<400> 3425

aggcaactgc agtggaaagga aaacaagaaa cagcaaagga caccaagttg aagaaggcct 60

ttgacctcaa gtcattcttg aaggacctgg cagctggagg tgtagctggg gcaatctcca 120

agacggcggt cgcccctatt gaaagagtga agttgctact tcaagtgcag tattcaaatc 180

cgc当地atccc ggaggagaaa cgttataaag gcatcatcga ctgtttaca agagttccaa 240

aggaacaagg gtttatttct ttctggagag ggaacatggc aaacgtcatac cgttacttc 300

ctacgcaggc ccttaacttt gcttcaagg acaagtacaa cgccatattc ttggaaggag 360

ttgacaagaa taagcagttt tggaggtatt tcgttggcaa tcttgctgca tgggtgcag 420

ctggtgggac t 431

<210> 3426

<211> 426

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D4

<400> 3426

aatcaggaa ttttgtccga gagttgttgt ctccgtcatg tcttcctgtc ctccagcagc 60

ttctttcttt ggttatattt gtgctgcaag tgcccttgta ttttcaaatt tgggtgcagc 120

ttatggtaca gcaaagagtg gtgttggcgt tgcttcgatg ggtttatga gaccggaact 180

tgttatgcga tctataattc ctgttagtaat ggctggtgt ctaggtatct acggctcat 240

cgttgctgtt atttggttt gacaaattgc cgaaacgaac tatccatatt ttcttggctt 300

tgcacacctt gcttctggac tagcacacgg tctcagcggt ctggcggctg gaatttgtat 360

tggtagttt ggcgacgcac gcgtccgagc tacagctcag cagccaaaac tctttgttgg 420

aatgat 426

<210> 3427
<211> 424
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D5

<400> 3427

acgtatttca tcaattcttt gaaggatttg ctgtcggtac tactgttcc gaagcccagt 60
ttggcacttg gaccactata gtaatggtag tttgcttattc tttggaaact ccaatcggtt 120
tatctattgg tattggtatt gcacacactt atcaggaaaa ctcctcggttca tctttgttaa 180
cgagaggcat tttggatgcc atctccggtg gaattttaat atacacagga ttggtgagg 240
tgttgactta ttggcttacg cgcaactcga acttttaag acgcaaagcc atacctattt 300
tttagtattgt gggatttgc tcggtaggag ccatctgcattt ggcgattatc ggagcgtggg 360
ccttagaata aaatttggttt gagacgtcgt ggtgcacatg actcgcatgt ttggtagttt 420
gttc 424

<210> 3428
<211> 429
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-D6

<400> 3428

acccacgcgt ccgtgttttt ggttgttttgc ctgtaggca aatatgagtt cctttgatcc 60
ggacaagttc aaacaagaac aaaaagctcg ctggaatcaa ggagctttat ccacgtggac 120
cctgtggaaa aaaactcaag tagaagatac tccagcaaag ttcttccttag gcctagtacc 180
tattcgacca ggagtgaaaa tcttagacct tgccctgtggt agtggggaaa cctcccttca 240
agttgctcac ctatgttcca gccactaaa ggatgaagcc aaagacgcaa agatagttt 300
cgttgatatt tcggacgaaa tgcttaaagt tctcaaccaa agagcacagg aaatggggct 360
agcaaataatg gtggaaaccc gctgtgagga cgccgagaag gtcgacttttgcgtcacta 420
ttttgatat 429

<210> 3429

<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E1

<400> 3429

aagtatccag aactttattt gcaactcatg acaattcaca gccacgccaa ggagacaagg 60
cgcttccaaa caggcgaaaa caaagcaacc gtagaagcaa aactactgga aatgctacag 120
agcaaaaagag tccttttgg tggccattta agtttaata ttgttattct agtttgcg 180
acgaagttcc ttaattacgg aggcaagagc gtaggggtcg aagccttgaa ctaacaactc 240
tatcgccact tgtagagttt ctctgtctag tcccgttcc aaaagtctcg ctatttcgta 300
cgaaaactaaa gactcatgaa ttttttttc ttataggata taatgcctta ctttctaata 360
tttcgtttttt ctttcctct cgttgctcaa aagacaattc gcgtgtctcc aattt 415

<210> 3430
<211> 171
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E12

<400> 3430

aagattccgc tggcacgtat accagatgag atgtgagtcc agcagagcca tgcaaagtga 60
atggcgctgc agttacatcc aaaatgtaag agatgaattt gtgcagaaga gagggccaaa 120
gtgtgtcaag tcttaccata atggatatg ttttattcaa aagctctcca g 171

<210> 3431
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E2

<400> 3431

acggacgcgt gggccgaaca atggataacct acttagggtt acaggagaaa cagtaccacg 60
tgctttgatt aatatgcaca gtccatttct agatgttaac tgctacagtc tagttgtaga 120
caatcttttc agcactcgct gactcatagt atattgcaa tctttatcg actccacctg 180

acctccccgag gttctgcaga gggttaccctt tttatcgaaa caaaatgatt ttgcgatgg 240
tgaatgggca tttaactgt ttctgttgat agacttgagt gttgaaagat tccgcagttt 300
gtcttattag atacagcttgc acaattttgc cggaagtctc aatacgtttc aatgttatcg 360
actacaatat caatttatcg tgagatggta tgtaaaaccc agtgttttt a 411

<210> 3432

<211> 253

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E3

<400> 3432

aaccacgcgt ccggacaacaag ttttatcggtt gctggcagta tatatcttca tcgatggatg 60
tatatatccc aaattttgtt tctcttaaat actgtgcattc gatatacttg gttcgtatga 120
ttggatatacg ttgctttgtt ttgctacaaa atacggagag aataaataat agatgtgatt 180
tccaataaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaacaaaa 240
aaggaagaag atc 253

<210> 3433

<211> 379

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E5

<400> 3433

aaagcagcat taccgaggac tggctagaag aacttgaacg agttaattga ccttatggtc 60
ctaccaatac gattgttcaa gtctttcatg accgtcaagt tattcatcga gaattgattc 120
agcaaggttca tcattcctagt gcaagtcata ttccactgac tgggtttgct gcagtctatt 180
accgtataaa atctagtatt cgactagcag ctcgttttc aggtcaatat acgattcaag 240
ttttgagcat ttggctaacc accgcataaaa tgatatgatt ggaataagaa cgaattcctc 300
aatgttaaaa tggtcacg ttgttagaaaa tatattaca caatagaata ctgctctcct 360
cattggacga ctttgttatt 379

<210> 3434

卷之三

<211> 383
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-E9

<400> 3434

aatttagttgg gcgcttgtgg tggtgtgttg gctggcaaattt gagcaaattt gcagagtttt 60
gtcaaaaaagt accaggactc cgtggactgtt acaactttttt agctcgctgtt cagataagat 120
gtgttagaaag agaattgcgc aagtactgac tgagatacga tgaccttctc aacgagcaag 180
atccggatgtt gaaaaaaagctt cttgaaaatgc tccccggaaaca tgagaaggcag ttgagagcca 240
agcgtttttat tcgagcggtt gatttgcctt tgaagaagac tcacttatcc gatgaaataa 300
cacaaaaaggaa agatatttgg aacccatatt tgagaagtcg catcaagctg attcgtaaaa 360
aaaagcatcc aaattgagac tta 383

<210> 3435
<211> 428
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-F1

<400> 3435

agataagtct gtcaagggtgt ggaacattca aaatggtcaa gaggagagga cattgaattg 60
ttcaggtcat aagaaaggaa atggtgatgg aataacttct gtttcattta gtcctcggttc 120
tccttatcgt attgcaactg gttcggttggaa aaagacagtg agagtattcg atgttagagac 180
cggtgaacctt ttgcacaatt ttcgtcaaca tgcagattct gtatattctg ttgccttttc 240
gagcgatgga agatatctgt tatcaggttc acttgataag aatgttatat tatgggatct 300
tgcagctcct tctccaaata actataacaat tttcaaaggc catactgact ttgtttgtc 360
tgtcgcattt agcttagacg gtcgtcttct cttgagtggc agcaaaaacc gtactgtaac 420
tttctggg 428

<210> 3436
<211> 406
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-F12
<400> 3436

aacaacgcgt ccgcccacgc gtccgggcga cagtagagga acggttctca cgtataacttg 60
tacgaaccag gactgttagta actggcttga gcaagggtgtt tgttcaagta tagttattgt 120
agtttagag gtttgttcaa ataaaggaaa ggagttgtga gacttaaatt cctatcaacc 180
gtaaccgagg gaggaaggtg tcttctgac agtggacttc agtggccgca ggtaaggaga 240
gttgacaggg aagttggagt taagtagcgc agtgttcaa gtttcgggt tggttcgta 300
caagtaacgg cactgctcgt acaatggaa ttccctctgac ctgtcatggc caagtacaag 360
cgccgaaaaaa gggacaacaagc ttatatgtgg agttgtgggt cacaga 406

<210> 3437
<211> 401
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-F3

<400> 3437

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tcaagtttg tgtttccttg ttgtactaga tgtgtaaaca ataccagttt cttcgtttg 120
ttttcaaga cccgtccaac tagtgttaag tcactgtcgt tactggcggt agggacaggt 180
tggaatagaa ggtctttgct caagaccatc tcctgtcttg ctgctttcc cgttttcgt 240
attttcctg ttcatgtcagc gaataatgaa gaaattgtcc ttcccgatgg agtccgttt 300
tggttggta aaaaaggtat cgaaaaagca tatcctgctg tanggttaaga agatatctat 360
tacgtttcc tgagatataca agtgtacaca gcgaacttgt t 401

<210> 3438
<211> 366
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G1
<400> 3438

aagagtagta cagtagttt acacgattgg aagaccatga aaccccagaa cattgttagta 60

aatggttaca tttaaaccca taaaggactt aaaaccggga atctgcaagg aggagaccca 120
cattggaatt gccaaaagggt ccaagcacta aaattcacca ttggggaaaa ttgggcattg 180
ttcagggaat tatgacccat ttatgaggat tggattaatc agacaaggaa tttaaaggag 240
ggaattaagg gaatttttg cc当地acact ttccaccacc accgtaaaaa ctttgtcc 300
aagcttaaac cccacaaact gggtgtaaag gtccattctt aaattaattc taaaaggaa 360
aggaaa 366

<210> 3439

<211> 451

<212> DNA

<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-G10

<400> 3439

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gaagttgaga aagaaggcaa tccaaaatgg tttagtgcctc atatgggtt tactggaaat 120
cgaccttcct cgtgtctctt gatgcctgtc tttagacgcgt atgttacggg acaactttg 180
gchgctttatg aacatctcac agccgtgcaa ggattcctt gggagattaa ctcatttgat 240
caatttggag tataattggg aaaagtccctg gcaaataaag ttcgcaagca gttgaacgaa 300
agcagatatt ttaataaaaga tatctcaggg ttcaatccct ctactacaag tctgctcaat 360
cgataacttgg aaggttctgt angatgtgct ttcaacatg tttatcatta tgtagtagtt 420
gtttcggttt ttgggtggagt tgatttttg a 451

<210> 3440

<211> 388

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G11

<400> 3440

aaaagacggt atcgtacctg atattattat caatccacac gcaattccta gtcgaatgac 60
gattggacag ttgattgagt gtcttcaagg aaaagttct gccattgctg gaagagaagg 120

agatgcaact cccttactt gggtaacgt agatgaaata tctcaacagt tgaaagctt 180
ggtttatcaa agtcgtggat ggaaacttat gtataatgga ttgacaggc gaccgttgg 240
agcgcatata ttattggac ctacttatta ccaacgacta aaacatatgg tcgatgataa 300
aatacattct cgtgctcggt gcccgttca aatactcaca agacagccgg tagaaggaag 360
agctagagaa tgtggattgc gctttgga 388

<210> 3441
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G12
<400> 3441

aagaaaagatc tgcattgatt ggacgagttt tgccatttgt gtcttcact aattgcatga 60
ccgttgcgtt tcatagtccc ttgaacaccc ttattctccg tttgtgcagt agcgtagtt 120
gtggaagccc cagaagcgtt ttgactttcc agtcttctt tcactgctga agcgtggcgc 180
gtactttgat actgttgttc accttgagc gcactattga aagccacgtt acatgtttt 240
caataagtgt cagtgtcccc ctctaattcgc tgtgagaatg gttatggaac ttgttgcttt 300
tcatactttt cctttcggt aatgcgaatt acatgagaag ccgctcccta aaccattacc 360
tcagttctgc aaacggaacc aacttacaaa acttacagct cgattgaaag tttt 415

<210> 3442
<211> 396
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G2
<400> 3442

acagtttatg gatgaaacgg aacgttcctt acatgatgct attatgattt ttaagcgtac 60
gttgaaggcat tccaaggctg ttcccggtgg tggtgctgta gaaatggagc tttctaaacg 120
tcttcgagaa tacgccagaa ctattcatgg caagtcgcaa ctgttaatct cgactttgc 180
aaagtcgcta gaaattattt cacgaacgtt gtgtgagaat gcacggttgg atgcaacaga 240
cattctgaac aaacttcgag cgagacacgc gaacaatctt ccctatgtag gcattgattt 300

gagcaacggc gaaatatgtg acacgtggaa aagtctcgta tggAACCTT cactactgaa 360
gtcgaatgtt ttatccgctg ctacagaagc tgcata

396

<210> 3443
<211> 411
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-G3
<400> 3443

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ggagaaaagga gacccaaatt aaggtgagag aatggacgat aaggaactag gcaaaaggat 120
atgttatctg cggttagaaca tatgaaagaa gcagcaccga ctgttttagca aaaacacagc 180
actctgcaga aaagagaaaa tgtaaagtat agagtgtgcg gcctgccaaa tagtagagaa 240
gaaatcgatg aaagtgaaag cgagtaaaag atgaggtata gagaatggcg gtcctaacag 300
taaggatcca aaggtagcga agtaaataga cgttgaaaa gcgttcagta tganaggaga 360
aacgagtgtta gcactgtcta gtcgtccaaac tcaacgaaac aacaataact g 411

<210> 3444
<211> 421
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-068-Q1-E1-G4
<400> 3444

aatgaaattg ccaatcgta cttggaaatt cgaggtcctg gaagtttgat tggatagaa 60
caaagtggag atgttggctc tattggctt gaaatgtata tgaatatatt aaaacagact 120
ttggatcgac ttggaggaaa gaagattcct gtttgaaag aatgtgaagt agatgttgc 180
ataccaagtt atataccaga gtcttatatc aagatagaat ctgaaagaat ggcagcttat 240
cgaacgttga gtcgagtcac cagttgaaa gaaatagatt ggatatccga tagtggaaa 300
tacaaatatg gcgacttgcc tctctctgtt tctttctac ttgaaataac caaaatccaa 360
ttgttggcta caaagggttgg tatatctgca atacaaatag aagaagagtt tgtgcaactt 420

a

421

Sequence Data

<210> 3445
<211> 446
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-G8
<400> 3445

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aatcatgtcc tactacacac attattctac agccatagat atgtggagtg ctggttgtat 120
at ttgctgaa atgctcaatc atggaagacc gctgttcca ggaatgaatg gtttccatca 180
gttagac ctc attacgaaga tattaggaac tccttcacca gaagatttgc aacatgtaag 240
gaaccccaag acgaaggcgt atttgccagtc tcttcctaga agagcacgaa aaccttttc 300
ggaaatattc gtgggtgcgg atccccgtgc tttggcgtta ctggAACgtt tacttcagtt 360
tgatcccacg aagagacctt gtgcgaaaga agcattgcaa gatatttatt tccgtgattt 420
gtatgaggcc gactgtgaac ttgttg 446

<210> 3446
<211> 376
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-H1
<400> 3446

aaaaaaatctg aacgagctca tctttgggtt ccacagacat gtcgaacgac aatcagtctg 60
ataagagcac ttgaaagaa gcggacgaga agctgcagag tgcagttcat agtggAACag 120
agaaagtttc tcaggtgttg agcgacgtca agggAAactgt gacggagaaa tacaaggaat 180
ggacagcacc aaaaagttagc caagaagaag cacaagaaca agcacaagaa gcgaaagaag 240
aggctaataa agcttttaat gctatgacag acagtgcgag tgccgcttca gaggtgcatt 300
cagagaaagc agaaaaatt aagcaggagt tgaacgagtg aagatacaca gtagtttct 360
cctataatgt tcttag 376

<210> 3447
<211> 419

<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-068-Q1-E1-H2
<400> 3447

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acgttgaatc tcaaattctg gaattattag agtatgtaaa ggatgttgct gttgctagaa 120
tggtttgtaa gcgatggaag agactcgtgg atgaaaattc ccaattgtgg agacgacttc 180
aaggctttac actaccaaaa cgactgccaa gtgaagcgga aaagtggtat agaaaggcag 240
cggaatgtgg gaatcgagag gcaatggtgc ttcttgccctt gctctattat tatggatatc 300
agagtcagga tgccacagtt ttgtcttga cgtttcttcg aaatagtgtc gcttgtagt 360
gcaacgagca ctagtgtcgt tgttgaggtt tttataaata aataaatttg tcctggtg 419

<210> 3448
<211> 107
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-068-Q1-E1-H4
<400> 3448

atgatgataa gaacaagaaa gctggaggtg cctaaatcgt gagtgttgg gaatttgc 60
tgtttgggg ttgttagtaacc gcgcacccatg taaagatata tacatgt 107

<210> 3449
<211> 426
<212> DNA
<213> Cyanidium caldarium
<223> unsure at all n locations
<223> Clone ID: LIB190-068-Q1-E1-H5
<400> 3449

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aggtttacga gagaaggaag tagaaagaag agagtgtaaag gcggcgtcat aatagaaatc 120
cgaaaggagt agaagaaaag agagagaaga aagaaaagaa gagaaaagcc gtactgaaga 180
ccgacacagg tactcgagga gaaaggagac ccaaattaag gtgagagaat ggacgataag 240

gaactaggca aaaggatatg gtatctgcgg tagaacatat gaaagaagca gcaccgactg 300
tttagcaaaa acacagcact ctgcagaaaa gagaaaatgt aaagtataga gtgtgcggcc 360
tgccaaatag tagagaagaa atcgatgaaa gtgaaagcga gtanaagatg aggtatanag 420
aatggc
426

<210> 3450

<211> 427

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-H7

<400> 3450

tgaattggag aagatatctt ccttagatac ttggaagctt gtgctggta caagacaaag 60
agtggataat atgttacagc gagtacacaa gctgacgagt atcttgcct ttttatactc 120
gggcgaacaa ccgagagtgg actatatcgt tgctgaggat gaagcaagtt gggaaaagtt 180
gtggagagga aaacgcgagg tcattggata tactttggaa gcagcttac agaaaacttg 240
tattgtggaa aaccaattga gggagtggaa aaagaaaactc gatagtctag cagacaatta 300
ttcggtgggt acgagagcct atgatgcgag aatgtggta ttggacctca tcgcaactat 360
tatgagtgtc tgaaaaat gtttcacaat tctttggta ttatgtccaa 420
ttgcccc
427

<210> 3451

<211> 417

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-068-Q1-E1-H9

<400> 3451

gaaaagttcca agtcttcctc gatcgaaagt gactcggaaag aactagaatg acattacgga 60
tatcgatataa tgaaagtaag tgtatgcagt tggatttattga tatgtaagag tagagcagcc 120
ttatgttata gagaacggtc ctggatgag agcaggactg agagtgtatg aagactttat 180
tattgctgtg gatggcttga ttgtcgagga agacgaagat gagatatctg aatatttaaa 240
gaagaaaaaca ggacaatatg tcaagctagt ggttggAAC tgcgtggatg aagaggaaag 300

agaggtttcc ttgttgtca acgagccaac taaggagagt gtttagttgg gagtgattgt 360
acgatatgag tcactttcc acgctacaga atatgtctgg caatgtataa gtgtcgt 417

<210> 3452
<211> 152
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A10
<400> 3452

tcgagccacg cgtcagcttc atcttaacgg tacaacaagt gtattttgtt actgcgtttt 60
gtacggtatg ctgcctatta aattgcattt gtgtgttcag ctcgtgctcg aattttgtgg 120
tatgctacgg tagcctctcg tagtctgagg tc 152

<210> 3453
<211> 244
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A2
<400> 3453

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agaaggaaat tgagcttcaa aaacaaaagag aggtcaatcc agactctatg gaagaagaag 120
ttgatcccgt tctcatgttg acgaggaagc acgttgaatg agagtatgaa gtttgcaga 180
cgttccgtta accgatgcgg atgtgcgtcg ctatgagatg tacgcgcaaa acatccaagc 240
tacg 244

<210> 3454
<211> 138
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A3
<400> 3454

gtcagggatt agaacatgcc tgcgagtaga aagagatgtc gcgcstatatt tctacctgt 60
gcaagcgaag aagtctgaaa tacgacttgt agactgatcg ttttctttt gccaatggtg 120

aaaagagtgt aactcgct

138

<210> 3455
<211> 305
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A4

<400> 3455

agcccacgcg tccgcccacg cgtccggaa aaaaaaaggc gcgacgacgc atgctcaacg 60
tgttgtctac tgctcgcat ttctgtacgg tggtcggctt ttacgacga cgacgacatg 120
gtggttgctt cctgtcgaaa ccttttgta cttagatgtt agaacaagga aaacttata 180
tatccgaaac cgaagatgtat acccgattat atcgtttctt gaaacgccgt attggtaat 240
tgcctcagtc ttaatttagaa aatttatatcc gaaaaggatt tgtaaggata aatgggcaat 300
tatta 305

<210> 3456
<211> 122
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A8

<400> 3456

cggccccgacc cacgcgtcag aagtcacagc aagaacgtga ctgggttttgc tctcagtttc 60
gctctggtaa gcaaccgttg atggttgcta ccgacgttagc tgccacaggt ttgggttaat 120
at 122

<210> 3457
<211> 416
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-A9

<400> 3457

agcccacgcg tccgcccacg cgtccgcaaa aatatgagca agttgacgtt aacatttttc 60
ttgtttacttg gcattgcagt gtatgttattt gcaggacctt tgaaagattc taccgttagcc 120

tcaaaaagtca gaggatata tagtgcttat actccaactt attcatctcc ttatgaggca 180
tcatatccta cttatactac ttatccatgg ataaagcctt gtgctgaagc ttgtgccgga 240
tgcctctatt gctatcaaca atacaatttt tattatcctt atgggcttga tatcctgtac 300
tgcaacaact ttgacaaata ttgtccagct ggatatgttc gaccatctcc ttatgaatat 360
tcttcttatt ctcgtggagc atatacttca tcttcttcct atgcgactcc aaccta 416

<210> 3458

<211> 419

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-B11

<400> 3458

acgaggattc tgtgacgtat cctagaggca tcacggccag aggatataac tcagttat 60
gaagttctta gacatcgagt gcctaagcga gctccaaagg aagcttaatg acctcgaatt 120
aacggactat cgtgttcgtt gtcaatttggaa agcttattcc tgtaaacccg caggtttga 180
caaaaaattt agcaaatcgt tggagcaaag gttgttggaa caacttgaag ctctccaag 240
ggcattccaa gcgtctcccg tggctcttt agaagaccaa agtgcggca agacattaat 300
caacccatt tgcacactga acgctgcgca ccaggattac gacttagct cgctgcagct 360
ttcaagactg aaacgtgtcc aagatgtaca cgcaattcag cagcacgtcg actcgctgt 419

<210> 3459

<211> 264

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-B8

<400> 3459

aggccaagtc accagccacc gttctcggt gatgttcgca agcaaagcaa aagagtggcg 60
aaaacacccc gacataagtc cgtggacaaa ctttaaggct tgctttactg gtttggAAC 120
agctttggca ctttttacgg gttatgttgt tttagaacag gcttattact atttttacaa 180
gcctacacag acgcaagtcc ccgagacgaa atcggaaagaa cttggctcct gagtttgcgt 240
ttcttgtaaa gttgggacct cacg 264

<210> 3460
<211> 414
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-B9

<400> 3460

gcgtcagccc aaacgtccgc ccacgcgtcc gcaaggtagcc aatcgacaac gaatactttc 60
ttgcaaacat ttccggata ttatgtggaa ggaatgctca caaagcttga aagccttgg 120
gctttcctcg ttgtacaggt cattttcttt ggagattgcg gagacactag aacaaagaaa 180
cattttcacc ggcaccaagg ctttggattt tttggcaaag atttcagagg atggtaagta 240
ttttatggtg gtgtatatat ctatctattt atatgtatgg gatgattgac tatcgctgtg 300
ggtacgaatt tcacaatggc aagtttgggtt tttggcgtcg aacgattcca ggtcatgtcg 360
ttattttctc gttcatttgc agcacagtat tttggatatg ctcgctcatg taag 414

<210> 3461
<211> 253
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-C1

<400> 3461

cgcgtagac caaaattaca caccgcgtgt gggtgaccgt gtctgacatg gacgcagacc 60
agtacagtaa acagccatac ttttggccaa acatgttgct acacggagat caagattcaa 120
ttttggattc tattccgtta tcaatgcgt aagcacagtg aaacgaacga tataaaactgt 180
ctgatcgtttt ggtactgtt taaaaatata tctcccgata catctccgtt ggcgtcacta 240
gtcgatgcat gtc 253

<210> 3462
<211> 446
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-C10

<400> 3462

aatttacggg ctcgagcacg cgtagttgt gtcgttcaa aaggctccat tgtgggtcca 60
tcgggtttgg ttgactccaa gacacatatg cctaagaact cacggcttgt tcgttagcaat 120
ctactatcct tttcgaatga aatggaagac ttgaatatacg attctagtgt tgcatgttct 180
aggaaaaagc aagttggaag tgcttcttcc tactctttat ggcaagaaac acttgatgaa 240
acagcacaac aacaagacag cgaatcgccc gtggatgaat tggacaataat agatagaaaag 300
gaatcggaag atattgcagt agtggagaat agagaggaag ttagtgcac acctgattca 360
ttatcttca aatcttcttc cagttcttca cctccaatgg aaagaaaaagt tgctcttcaa 420
gagataaaaag atacttcca acgagc 446

<210> 3463

<211> 145

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-C12

<400> 3463

cgacgcacgc gtaagcccc acgtccgcca gccgtccgccc cacgcgtccg tgtgtttcct 60
tgtaagaata ggagaacaac cttgaaaaat agctttgtag agagaagagt ttgttttca 120
gtaaaggcata ttggtacttt acatc 145

<210> 3464

<211> 205

<212> DNA

<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-C2

<400> 3464

gcgttaagccc acgcgtccgc ccacgcgtcc gcggacgcgt gggttggta gaatcttgg 60
gtaagcacag gatcgacatt ccgtacgttgc ttgtctgtc tcgtatctca tcaattcttt 120
gaaggatttg ctgtccgtac tagtgtttcc gaagcacact ttggcacgtg gaccactata 180
gtaatggtac ttgtctgtc ttgg 205

<210> 3465

<211> 399

<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-069-Q1-E1-C4
<400> 3465

cgcgtcagcc caagcgtccg tgcaccc tacatggac acg aatctcaaga atacttacgc 60
tgctggtgac tgggtcgag taagctgata gcaattggtc caagagttgg tgtaacacgc 120
gtatggctc tcaatggccg atatagtgag atatttcggc gttggcatta cttgacaatg 180
gcttgcataa tgtccgactt gatggaaagt tgactttag gcaaagatcg aaagtcttgt 240
ctagttcag gttggacttag tcagatcgca tgagtactgc aaacattttg ctgtctctt 300
tgaaggctgg tggagttgg ttaaatctta cctctgcaag tcaggtgttt atattggacc 360
cattgtggaa tcctgcagtg gaagaacaag ctatcgata 399

<210> 3466
<211> 413
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-069-Q1-E1-D11
<400> 3466

cccacgcgtc cgagcaagcg tgaaccgtga gggtagttca tcatggttga gacaaaactt 60
caagatggtg ttagtgcttc tctttggact gttcgctct tcctctacac agttatTTA 120
gcattctctg ccactatcat tggcttggat ggacgtaaag cagacaacat atggAACGAC 180
agcttattct atgatggaa gtacattaac ttttgtgctt attctgcctc ttctgttgta 240
gaaggagggg accatggagc gtgtaaatat gtcatggcgt tggcgctat aagtttgatt 300
ctagtcTTT tcttggcgt tttcacattt gtagatgcgt tgcgtatccat tcttaccaag 360
ttttggTTA ttgaattggg tatcaacgtg tttcaaacaa tgggtggtt ggt 413

<210> 3467
<211> 205
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-069-Q1-E1-D2
<400> 3467

cgcgtcacga ttcactgccca tttacttgat ggacagaatg ggaagaagag tgctgtggtt 60
aactttatta ccaggagtgc tcgttggatg tttcattata ggcttagtt tccggagcta 120
gcatcatcca tggtccacga acgaatttac attgggggta ccaatacata atacatgtt 180
tgcggttctg gtacgcgacc ccatg 205

<210> 3468
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-D5

<400> 3468

ccccacgcgtc cgcccacgcg tccgagctac ttcaactgtc caaagtgttt cagactttta 60
cagaaaaaca attttccctct agcgtctcca agttccagct tcccgatcta ccctatgact 120
atggcgagtt ggaaccttac atcagtgcag aaatcatgag acttcaccac caaaaaacac 180
caccaaacct atgtcaacaa cttgaatgtc gcattggaaa agatccacaa ggcagaagaa 240
gctggtaacg tgggtgatat gatcgcgctg caaaagatgc tcaaattaa tggaggaggt 300
cacgtcaatc actccattct ttggcacaac ttggctcccg tgaataaagg gggaaaggta 360
tccccccgat ggaccattct taaaaccagt ggaaaaagaa ttccggctcat tg 412

<210> 3469
<211> 165
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-D8

<400> 3469

ctcgacgcaa gcgtacacat caggttagga tactcgctga acttatgcat atcattaatc 60
ggaggaacag ataccaactg gaattccct agtagcggcg agcgatgcgg gaagaggcca 120
ctatgagaat ccttttttc gtttgagaa tagaggagat gtatt 165

<210> 3470
<211> 278
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E1
<400> 3470

cacgcgtcac gcccaagcgt ccgcccacgc gtccggatg ccatccttat tggtaacaagt 60
agcctattgt attcatgatg tgccacctat atctacctgt gtacgcacta agttctccga 120
gtttggaga agtcatcactg aggaatggcc caagcaaaag cacatgtgc aagccgatca 180
aagacaaccg ttgaatgaat tgctcatccg accaagttaa tacagcttga atcgatgccc 240
tcctccataa aaccatctc gtggcatttt ttttaat 278

<210> 3471
<211> 240
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-069-Q1-E1-E2
<400> 3471

cacgcgtcag aatgaangag aaatgaaata tgacaaaaga atgtcgtcag aggaggaaca 60
agtggaaacc tctactttt aacttcgag agaagccgag gaagcagcga taaaagcaag 120
aaacttaacg gaaaggattt aaaagttttt ctgcgaagagt taccagagcg agaagagaga 180
tatcgaaaaaa atggcttcag acaacgatgg agtgactaac ttgcgtaat cctaattgtt 240

<210> 3472
<211> 253
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E3
<400> 3472

cccaaggcgtc cggcattata ggagtgattt gagatatgga tagttatcg ttgccagatg 60
ccaaggcgtt tccaattttt ataaggatcc ttggaggtgt aacgcacgag agaatacagg 120
aaagaaggaa ccaagtcttg agttgtacca acaaagactt ggttagacttt gggtcggat 180
tggaaagtgt tgcttccat ggtgcatac ttgccgtagg tagtgaacaa tctttataac 240
aagccaatgc aca 253

<210> 3473
<211> 385
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-E9

<400> 3473

gcacgcgtca ggacaaacat ttgtcgatca aaatgcttca agttggcttt tcctagaaat 60
attcgatctc atatgatata cagtgcgtg gaatcgagta cggtatgtga tatcgaattt 120
atatcttatt ccgataataa accatggaat acgagtattt agcaaccaca agagagttgc 180
cccaactctt ctactcgtag aatactcttta atacttgtgg gtatattcgt gctctggcaa 240
gacatgatta tacatggaat tggtaagtaa atgatggtac aaagtgtgtc aggttgaattt 300
gcatactcct ctgcaatgtg aaaactatgc tatcgagtaa ttgtctcaaa acaaggctaa 360
tggtgtgggt agatgttaacg ttaca 385

<210> 3474
<211> 417
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F11

<400> 3474

agcaaaatcc cgaagggtgg gattgttggt gtctccagca gcccgttgc gtctgtcttc 60
aaagtataca atttctttgg ttgttatatt tggatata aacttggaat gggcacaaag 120
aaacaacata ttatgagcgt ttgttaggtac gagagaaaaa agggtgtctt caactgttta 180
tttcgatga ccacgctgca accgtacgta tggatgtaa acgcggtagt ttgttagtgt 240
tttgcgttct gtgaagcctg tctcattaca aaaagtaacg agatacgtgg attttaata 300
atatttagcat tggtaagga aacttcactg ttactctgaa caagtggta tagtttcga 360
cttgcaggg aaaaggcaac agcctgacag ttataagttt gaggcgtcac cagtaaa 417

<210> 3475
<211> 403
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F2

<400> 3475

agcggacgacg tggcgacg cgtggaaact tggtctgcat gagaattccg accacacgga 60
atctgaaacc agtgcgttga atagtccagt gtttcggtt ccgacaaacc accaagacaa 120
cgaccaggag cagcatgacc atccatccaa cctttctac aagttacttt ttggagatgc 180
atctgatgaa gaggaagagc caaagtgcgt gaaaggcgtt tcctatgaaa gtacgcata 240
tgaaaaagat tccacttcgt ttctgtccgt tgctacatca acaaccgata accggaagac 300
gcaaataatcc gatcattcca ttccatcctc ctccaataaca gatatgagcg attctaacga 360
gaaacaacag cctattcaaa gtaatgataa tagtttgaa gaa 403

<210> 3476
<211> 327
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F5

<400> 3476

agcccacgacg tccgcccacg cgtccgggtgg gttgtggagt aagtgcgtt ggcaacaaac 60
taaaagatgg caagaagaat catcgagact taaatgtctg acgctactgt agcgtctcta 120
tttagtgtga aaatgttggt ctacccatca atacttcgt tctctatcac tattgtgggt 180
cttatgggta agagttccga cggtatttgg gttcacagtg ttccagcgaa agacgaatat 240
tgtgcataaca agtcttcctc tcaagtaaac caccacggca tagttccata ttgcaagtat 300
atcatggctg tagcagctat tggtttg 327

<210> 3477
<211> 421
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-F9

<400> 3477

aggaggttgc ttcttggtca tccaaagacga tccttggaaac attgccatcg ttgttattct 60
ccgtccatcc acatgtcaaa tacaactccc gagaacccta gtgcagagag actactagaa 120
tggaaagta cactagtgaa agagttgcaa acgcttcgtt ttccatccacc cgtttcattc 180

atctattctc ctctagagta tgcgtggcct ttgcacgaag aatatgttcg tcgatattat 240
cgtccaacag cacgtgttt attcggttga atgaatcctg gacctttgg aatggtccaa 300
agcgggattc cttttggta tgttgttac gtcaaagagt ggctggatat tcgtggcgat 360
cttgattca cagcgttacc tgagcgtgtg catcccaagc gacctattt aggactgcat 420
t 421

<210> 3478
<211> 412
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G1
<400> 3478

agaaaagccaa gtgaggaaaa gaaggcaagt agagggcggc ccgagaaagg agagggcgta 60
agacgtgata cagagtagga agaaaagaga agagagctag aaaggaggta aaagaagagt 120
aaaaggacta gaagaggtac ggaattcacf aggaaggagc gtgaaggaag gaggaatccc 180
aagttatcga ggaagaaaaa gcttcggta aagcgtgaac ggattttgtta cacactgcc 240
gtcaagttct ggaagtgtgc taggaataag cacgagaagt agaagagagt aggaaaagaa 300
gaaaggaagt gaagacgtaa gacgtaaaaa aaaagcgtaa gacgtgatac agagtaggaa 360
gaaaagagaa gagagctaga aacgacgtaa aagaagagta aaaggactac aa 412

<210> 3479
<211> 364
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-069-Q1-E1-G10
<400> 3479

aggagagaca gacagatggc caacgctggt caagatggcc ttgtgcaagt caacaaacat 60
agaaaagtaa agagattgca agaagataat atttgaata gagcactatc acaaccagga 120
gatgtatttc tgtgctttg caacatccag ttgtggta atgcagaaag agctattata 180
ggaaatatta cttgtccaga aagtatcgaa ttgtgtcgat tattagctgg acatatacg 240

gtttggttcg atgaacattt ggatgacttt cgtttggaaag ctatcttggg agcactattg 300
tgtacttgtt attgtgagtg gaagcgaaaa gaaggagaat tggnggtaca agaatggaat 360
gaat
364

<210> 3480
<211> 413
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G3
<400> 3480

ggggagggag gaggatgcaa gggttggaaaga aaccagtcat aaccgatgct tttggaaaca 60
gagtaactta tgtgttgaaa agatatttca acgcacctac tactggagaa gagttgccac 120
atccgttggg tggcatgtg accgatgcag atacgttggt acggcacaaa gggctggag 180
aagaaacagc gtattttctg aaagaagacg ctcgcaagtt tgaaaagttt gcaaaaacagt 240
tgaaaagtgc gttgaattca cggaaactaa tgacaaaaga acaactcaaa gtggccatgg 300
aacagagagg aataacaagta tctgaagagg gtttagagga cttgcttcgt ccaaaagagc 360
acattcgaat ctcggatgca agtagcagtg gtacgtaaga acaagctaaa gac 413

<210> 3481
<211> 400
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-069-Q1-E1-G5
<400> 3481

ccttgcac agtgtgaagc ttgcagaaaag ttgaccaact ttgccagggt ttgcactat 60
gctcggtcaa aacttctttt gagaagaaac caaatattga gaactaaagt cccgtggta 120
cttttatgtt gttcgataaaa gtcttcggat ttgagaaagg cagacagagt ttgtttttt 180
gtagctgacg cagctatttt gtcaagttagc actagaaatg agttactgac tgccttgaa 240
agtctttctt gttgaaaag caccttgga aggttccatt atttcgctgt atccgatgac 300
agtttggagg aggtggaaag acatatttcc ttgtcagctg gacaagggtt taaaacggaa 360
gttttgatca ctcctggagg agctcaagtt ttccaacttg 400

<210> 3482
<211> 280
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G6

<400> 3482

cggctcgacc cacgcctaca gtgagattcg ggatagactg gaaattatgg caaaaccacg 60
tgccaacagc agcggtaaaa agatgtgtag caatcggtag agtcaaaaga actgttagtgt 120
aaacagacga gtacatacag taacgtgtca agaaggaaca ggaaagc gag agatcagaca 180
gacaagggat taaaatgcaa gagatccact acaggaataa gcattgaaag attagatatg 240
acatacacat ctaaattgac gcgagaatac actatgaatg 280

<210> 3483
<211> 405
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G7

<400> 3483

aagaaagagg caaatacggg aaagcagtaa aagaagaaag agaaaggaaa aaactgagta 60
tcaggaagaa aagagggagt agatgagggaa agaaagatca aagaagtaag agtaagaaaa 120
agagtaatgt aaatgaaagc aggaaagtat tgaaaaaaga gaatgtaaag cgccctaactt 180
ttgcaaaaat gttccaacca gtgaaagaag aagcaaaaag aaagaaaaag aagttaccac 240
gtaagacccg aagctaattg atcctaagct gtccaaagcga agtaaggctg aaccaatatc 300
tgtggaaaaa gatgttggaaag agatagcata agggggtaaa ggccaatcaa agctaattgtat 360
acctggtaact cctcgaaagc tatataagta tcgtatgcac gaaag 405

<210> 3484
<211> 252
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-G9

<400> 3484

agccccacgcg tccgagtggtt tattgcact cacaggcctg gatggaaattt gtcgatcatt 60
gtctttggga atcttagggat tctcatacag cagacagttt agtcaattt gtgtcttcgt 120
tatgtcttcc ctgagacttg tcagttcttt aacaatagaa cctccttattc tttcaggctt 180
tttcaattct ttcaatatga tattttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaagg 240
cggaagaaca aa
252

<210> 3485
<211> 269
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-H1
<400> 3485

agccccacgcg tccgtttgtt ctgaatcaag gagaagttt tacttgtcca tcgagagctc 60
ttgttcacga gtccatttac gacaagtta tcgaaaagggt gattcaaaga ctggtaaaa 120
taaagcaagg agatccactc aatttggaga ctatgggtt agctcaagta tctactgaac 180
agatggataa gattcttcac tatgtggaat tggaaagaa ggaagggtct cagtgtattt 240
ttggaggaag tggaaagaaa gccatttggaa
269

<210> 3486
<211> 430
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-069-Q1-E1-H12
<400> 3486

gcgttaagtga caataatgtt gggtcttgg tcgttattga tgttagacgt gatgggttta 60
gtggaaggcc tttgggtatt gtgacagaaa gagattatct tagaaagata gtactttgg 120
gacgctcatc caagacaact tatgtaaagg atatcatgac gtctgccaat gatctaatta 180
gtgtcaaccc tttagcttct ctttagcgaat gtatggaaat aatgactctg aaaagaattc 240
gtcacattcc ggtaatagat agtgaaggca atgtgaaggg aatggtatcc atangagata 300
tcgttagaga actagtcgaa gaacaacgac atgaagcgaa gaaactgaat gaatacattc 360
aggggactta ttaagatggg ctccttcgag gcttgaagtg cttttgttga tttgtgcaca 420

gaataaacat

430

<210> 3487
<211> 431
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-069-Q1-E1-H4

<400> 3487

gactcaagcg tacgcccacg cgtccggcca cgcgccgga gtggcagcac gtgtgatgta 60
tatatgagaa agaaaatgat acaagagaga actatcagtg gccctgtgaa agagagcact 120
gatgctgatc tcagacacac ggttagcagat aggtttacta tagatgtata cattgggtct 180
aggtacggca gatacgggac cttaatagtgc acatccggat acatgtgccc atgtccaaat 240
agtacatgan agggtaaaat ccgccttttag cgacgataca cgaaacgggt gtgttagatc 300
aagatggcca agatgtacca cgctgagaat gaacggttt ccttgagag agtcgtgtac 360
gatgagtgaa agtgacagcg acgagagttg tgccagtgac gacaagacga taaaaaccttg 420
caccaagaga c 431

<210> 3488
<211> 244
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-069-Q1-E1-H7

<400> 3488

acgcgtcaga ccaaataaca tgtcgaccca aaacgcagta ggctctccca acttgataag 60
gagaaatacg gttcacgca gttccggttt aactagttct ggtacgagca cctcggggaa 120
gtatTTTCC gcgcgactgt ataacgacga agcacccggt ttgagagtgg gaccaacgtc 180
tgttagggtt tttagctatg tctttaaagc ttttgtgta gtttgcattt gttggcattt 240
gttt 244

<210> 3489
<211> 409
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-070-Q1-E1-A10
<400> 3489

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gatgggttta gtgcttctct ttggactgtt cgtctttcc tctacacagt tatttttagca 120
ttctctgccca ctatcattgg cttggatgga cgtaaagcag acaacatatg gaacgacagc 180
ttattctatg atggaaagta cattaacttt tgtgcttatt ctgccttcc tggtagaa 240
ggaggggacc atggagcgtg taaatatgtc atggcggtgg cgtctataag tttgattcta 300
gtctttttct tggctttt tacattttaga gatgccttgc atcctattct taccaggaaa 360
tggttatttgc aattgggtat caacgtgttt caaacaatgt ggtgggtgg 409

<210> 3490
<211> 209
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-070-Q1-E1-A11
<400> 3490

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ttcaaaaggct tcataatggc acaggccgac gttcaaccc ctccaaaact gtctacccaa 120
cttcaattca aaggactgcc tttaaaaag gtcaagccgg gaaaaaccccg gggtaaccc 180
aattaaacgc ctttgaagaa aatccccctt 209

<210> 3491
<211> 376
<212> DNA
<213> Cyanidium caldarium
<223> Clone ID: LIB190-070-Q1-E1-A12
<400> 3491

atgccaattt agaagtgttt tcgaagaatg gggtcatt tgagaacgat gtttacattc 60
caacggatga gcctcatggc actattaagg caacgttgc aaggcttgc cttgcaaaat 120
tgtaaagaag cgaaaacgag cgaacatatc acataagtga gcaacaagaa catttattct 180

atccgtata cttcatttt tttcatttg ttcggacatc tcatctctta gcctacattc 240
caatcgcaac tcttgcgaa actctgcgta ctgtacgtcc ttttcttata cgttccttc 300
cttgtattct ggagttagaa accaagtaac gatgaccccc agaaaacgcga ctcctgtgt 360
aacaaactgc agattt
376

<210> 3492
<211> 425
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-070-Q1-E1-A2

<400> 3492

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tagtgcacta acaaacataa gaaagagaaa caccgatgaa gaaagcggag gaggggaaga 120
agcgagaaaag gagaccacct atgggtttagg tggtgcttat atggatatgg caggcgtcaa 180
tggccatgga aatccacatt tacaacatgc caacttacct ccagcaatga gacattttcg 240
caacgttgca gggaaaccgg ctatattggc actctctgct tttcaacgg gagcttgg 300
tcttggtatt gtgaatgtan gactcatttc ttccgaggtt ctccctactg tagcacctcc 360
agccttttt tacagtggat tttgtcaaat tggctggaa atcctaactt ttgccaataa 420
tgaca
425

<210> 3493
<211> 339
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-A4

<400> 3493

acggacggtg gggctccac caagagagtt gcaaagaaac taatggattt actttgaaat 60
gtcgcgaaag tgacaatacg acttgcttga gaaaaagcaa gaaactgaag tccgagctt 120
gttactactt tactcggtt ggtgttgca atgacaagca atgtcgctt gttcacgacc 180
ccgaaaaggt ttctgtatgt cgaaagttt ttagcggttc atgtatcgat cccaaactgca 240
cactactgca cactacagaa aaggatacgc ttcctgtgtg tttaatgttc ctaagtggat 300

tatgtggaaa ggagaactgt ccttcgttc acgttaatg

339

<210> 3494
<211> 415
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-A9

<400> 3494

aggcttggtt agtactgagg tgagggatca ctcgggaacc ccaagtgccg tacgaaaa 60
caatttctct tgtataaggaa agaaagtatc tgagaagaat tcaggcagcg ttgaaaattt 120
ttcaagtatt tcgcgagtaa taatatgtgc taaaatattt ttctactact agaggttctt 180
tttgcttgcac gctgtttgaa aacaacggaa tgaatcttgc cctgaccggc cgatatggcc 240
aagggatgac tctaacaggt atccaatgac ttatgtttc catcgatga caagaggctt 300
gttggtaaa agtagcggat atgtttgtg cagattgtgt cgtgcttaag ttgctcactt 360
tcctgctgac caagaggttt gaaaacctgc agtctaaaga gcaatatgtt ctcac 415

<210> 3495
<211> 350
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-070-Q1-E1-B1

<400> 3495

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tcattcagtt ctgccccaac caaccaaaca cttcaaaaga aacttcaagg tgccggaaaa 120
gccttattgg tatggttta aatagatgcc gctacccatc tctttgtga gctccctttt 180
gtagtcattt ctttaacaac cacggtaac caagcaaccc attggctgc catattatgg 240
aaggaatatg ctaaagcggta ttcacgttgg ggtagatttc atgactgcac gggggctt 300
gnagtgccta cctctatttt atggggcct ttatcttag cttgtgcgtta 350

<210> 3496
<211> 205
<212> DNA

<213> Cyanidium caldarium
<223> Clone ID: LIB190-070-Q1-E1-B11
<400> 3496

aaggaaaaag tatttcttca agtggcagaa agtttaaatg aaaaagtcta tgtagataaa 60
agaaaagtatc gaatttttag tcatcttcg ttaccagaac atatccaggg tttgttaact 120
acggaagcct gtgcttcacg cctacacgtt gtggacatga gaagtgtcag ttttagtgaa 180
atgaaaagaaa attcccaaaa atatg 205

<210> 3497
<211> 390
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-B12
<400> 3497

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tacgaaagca tcacagaata taattgcgag cttcaagagc caacatgatt gccaaatcaa 120
gtgctgttca tcgacgcctt tgtgcctct ggatatttcc attgttcctg gtgttgttt 180
taccgatcct caagttgcta cagtcggaat gaccgagcag caagccaagt atgccggcat 240
agataactgat agtcgagttt ttcatttttgc tcacatccct cgggcaatttga taaactttga 300
tgaacgtgag tggatcaagt tggtgataga taaacagagt ctcttacttg ttggagctac 360
aatcgccccca ccttgtggaa gagaaatgaa 390

<210> 3498
<211> 333
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-070-Q1-E1-B2

<400> 3498

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taaaaaatcca aaccggagga aacgggtggc caaaaaagg acacganaag tcaatttcnt 120
aaganagacg cttcaaaaca atctataaga tggcgactca tctagaccct ctgtatTTG 180

ccacaagagt gtttacgag attgaatggg aacttgttct attcaccata gtcgctgcac 240
cttggtgaca ccaaaataaa aggacgaaca agaaattttg ctatgccaga aacaagcata 300
aaaactgagc gactgggtgg taaaaacaag cac 333

<210> 3499
<211> 361
<212> DNA
<213> Cyanidium caldarium

<223> unsure at all n locations
<223> Clone ID: LIB190-070-Q1-E1-B3
<400> 3499

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aaggaatcaa cggttaataaac cttgtgggtt gttggaattc ttattcaggt gagaaagctt 120
taaagatagc ttctgaaata agctattctt tggtagaagt acctgtcata gaccccttgc 180
ttgatactca agctacccaaa caactcgca gacaaggatgg cttacgatttgc tcatgttctg 240
tangattatc ccaagacaca gatataagta gtttggatga gtctacaagg aaacaaggag 300
aacaagtact gatgaccgca gtggaaagag cacacgctat tggctctccg atagtttgc 360
g 361

<210> 3500
<211> 152
<212> DNA
<213> Cyanidium caldarium

<223> Clone ID: LIB190-070-Q1-E1-B4
<400> 3500

ccttggtaa aattgtgtta atgaaaaattt gattccggac aaacaactta aagaaacaag 60
gaattaccaa gacctggaaa attaaaacca attaccccaa ttaccaaacc atccaaaaaa 120
attacaaaag gataagccaa actttaacct tt 152

<210> 3501
<211> 392
<212> DNA
<213> Cyanidium caldarium